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STRUCTURE FILE UPDATES: 21 SEP 2004 HIGHEST RN 749178-43-6 DICTIONARY FILE UPDATES: 21 SEP 2004 HIGHEST RN 749178-43-6

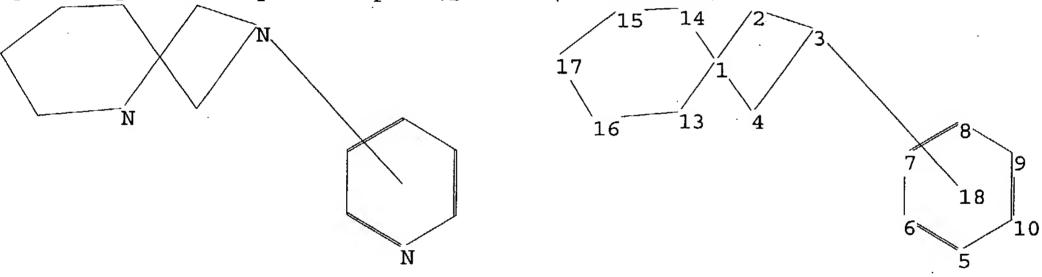
TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

Uploading C:\Stnexp4 corrupted\QUERIES\10607930.str



ring nodes :

1 2 3 4 5 6 7 8 9 10 13 14 15 16 17

ring bonds :

1-4 1-2 1-13 1-14 2-3 3-4 5-6 5-10 6-7 7-8 8-9 9-10 13-16 14-15 15-17 16-17

exact/norm bonds :

1-4 1-2 1-13 1-14 2-3 3-4 13-16 14-15 15-17 16-17

normalized bonds :

5-6 5-10 6-7 7-8 8-9 9-10

G1:C,N

Match level:

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS

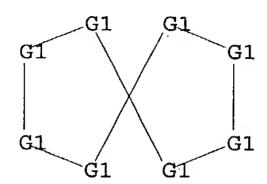
L1 STRUCTURE UPLOADED

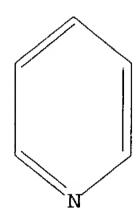
=> d l1

L1 HAS NO ANSWERS

L1

STR





G1 C,N

Structure attributes must be viewed using STN Express query preparation.

=> s 11

SAMPLE SEARCH INITIATED 15:02:03 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 113848 TO ITERATE

0.9% PROCESSED

1000 ITERATIONS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*INCOMPLETE\*\*

BATCH \*\*INCOMPLETE\*\* 0 ANSWERS

PROJECTED ITERATIONS:

EXCEEDS 1000000

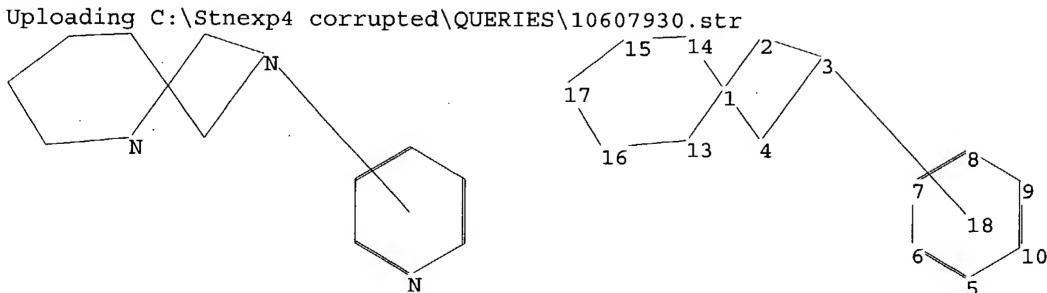
PROJECTED ANSWERS:

EXCEEDS

Ŀ2

0 SEA SSS SAM L1

=>



ring nodes :

1 2 3 4 5 6 7 8 9 10 13 14 15 16 17

ring bonds :

1-4 1-2 1-13 1-14 2-3 3-4 5-6 5-10 6-7 7-8 8-9 9-10 13-16 14-15 15-17 16-17

10-1/

exact/norm bonds :

1-4 1-2 1-13 1-14 2-3 3-4 13-16 14-15 15-17 16-17

normalized bonds:

5-6 5-10 6-7 7-8 8-9 9-10

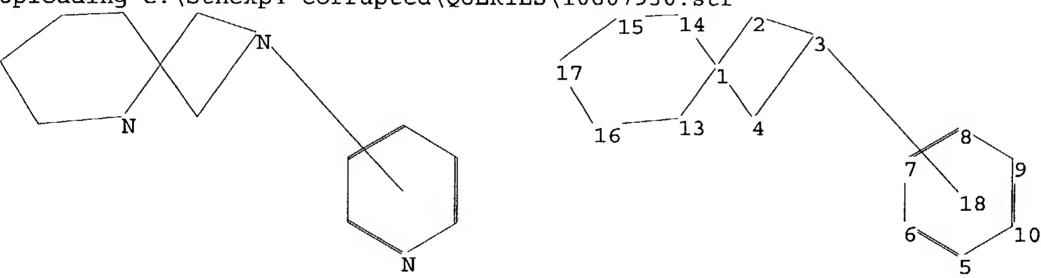
# G1:C,N

Match level:

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS

=>

Uploading C:\Stnexp4 corrupted\QUERIES\10607930.str



ring nodes :

1 2 3 4 5 6 7 8 9 10 13 14 15 16 17

ring bonds :

1-4 1-2 1-13 1-14 2-3 3-4 5-6 5-10 6-7 7-8 8-9 9-10 13-16 14-15 15-17 16-17

exact/norm bonds :

1-4 1-2 1-13 1-14 2-3 3-4 13-16 14-15 15-17 16-17

normalized bonds :

5-6 5-10 6-7 7-8 8-9 9-10

## G1:C,N

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS

L3 STRUCTURE UPLOADED

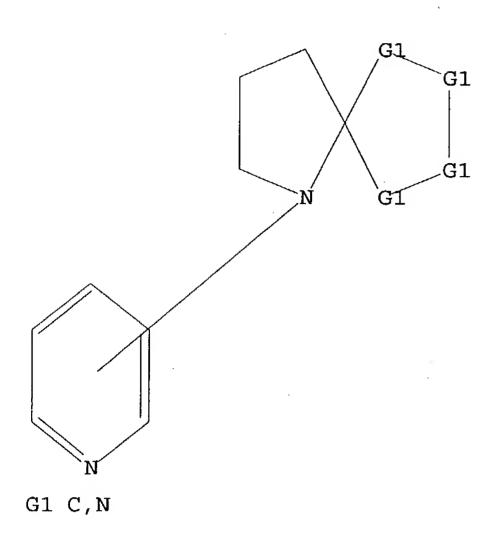
=> d 13

L3 HAS NO ANSWERS

10607930

L3

STR



Structure attributes must be viewed using STN Express query preparation.

=> s 13

SAMPLE SEARCH INITIATED 15:04:36 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 42968 TO ITERATE

2.3% PROCESSED 1000 ITERATIONS

0 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: C

ONLINE \*\*INCOMPLETE\*\*

BATCH \*\*INCOMPLETE\*\*

PROJECTED ITERATIONS:

846997 TO 871723

PROJECTED ANSWERS:

0 TO

L4

0 SEA SSS SAM L3

=> logoff y\

'Y\' IS NOT VALID HERE

For an explanation, enter "HELP LOGOFF".

=> logoff y

COST IN U.S. DOLLARS

SINCE FILE TOTAL

2.94

ENTRY SESSION

3.15

FULL ESTIMATED COST

STN INTERNATIONAL LOGOFF AT 15:05:50 ON 22 SEP 2004

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssspta1612rxd

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

```
Welcome to STN International
                 Web Page URLs for STN Seminar Schedule - N. America
NEWS
                 "Ask CAS" for self-help around the clock
NEWS
                 BEILSTEIN enhanced with new display and select options,
NEWS
      3
         Jul 12
                 resulting in a closer connection to BABS
                 BEILSTEIN on STN workshop to be held August 24 in conjunction
NEWS
         Jul 30
                 with the 228th ACS National Meeting
         AUG 02
                 IFIPAT/IFIUDB/IFICDB reloaded with new search and display
NEWS
                 fields
                 CAplus and CA patent records enhanced with European and Japan
NEWS
         AUG 02
                 Patent Office Classifications
                 The Analysis Edition of STN Express with Discover!
         AUG 02
NEWS
                 (Version 7.01 for Windows) now available
                 Pricing for the Save Answers for SciFinder Wizard within
NEWS
         AUG 04
                 STN Express with Discover! will change September 1, 2004
NEWS
         AUG 27
                 BIOCOMMERCE: Changes and enhancements to content coverage
                 BIOTECHABS/BIOTECHDS: Two new display fields added for legal
NEWS 10
         AUG 27
                 status data from INPADOC
                 INPADOC: New family current-awareness alert (SDI) available
NEWS 11
         SEP 01
                 New pricing for the Save Answers for SciFinder Wizard within
NEWS 12
         SEP 01
                 STN Express with Discover!
NEWS 13
         SEP 01
                 New display format, HITSTR, available in WPIDS/WPINDEX/WPIX
                 STN Patent Forum to be held October 13, 2004, in Iselin, NJ
NEWS 14
         SEP 14
NEWS EXPRESS
              JULY 30 CURRENT WINDOWS VERSION IS V7.01, CURRENT
              MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
              AND CURRENT DISCOVER FILE IS DATED 11 AUGUST 2004
              STN Operating Hours Plus Help Desk Availability
NEWS HOURS
              General Internet Information
NEWS INTER
NEWS LOGIN
              Welcome Banner and News Items
              Direct Dial and Telecommunication Network Access to STN
NEWS PHONE
              CAS World Wide Web Site (general information)
NEWS WWW
```

Enter NEWS followed by the item number or name to see news on that specific topic.

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FILE 'HOME' ENTERED AT 15:11:52 ON 22 SEP 2004

=>

=>

Uploading

THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE Do you want to switch to the Registry File? Choice (Y/n):

Switching to the Registry File...

Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of commands which can be used in this file.

#### => FILE REGISTRY

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION FULL ESTIMATED COST 0.21 0.21

FILE 'REGISTRY' ENTERED AT 15:12:07 ON 22 SEP 2004
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STRUCTURE FILE UPDATES: 21 SEP 2004 HIGHEST RN 749178-43-6 DICTIONARY FILE UPDATES: 21 SEP 2004 HIGHEST RN 749178-43-6

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

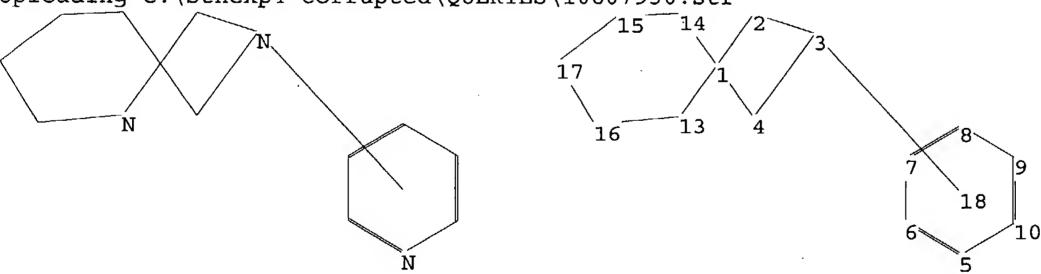
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Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

=>

Uploading C:\Stnexp4 corrupted\QUERIES\10607930.str



ring nodes :

1 2 3 4 5 6 7 8 9 10 13 14 15 16 17

ring bonds :

1-4 1-2 1-13 1-14 2-3 3-4 5-6 5-10 6-7 7-8 8-9 9-10 13-16 14-15 15-17 16-17

exact/norm bonds :

1-4 1-2 1-13 1-14 2-3 3-4 13-16 14-15 15-17 16-17 normalized bonds: 5-6 5-10 6-7 7-8 8-9 9-10

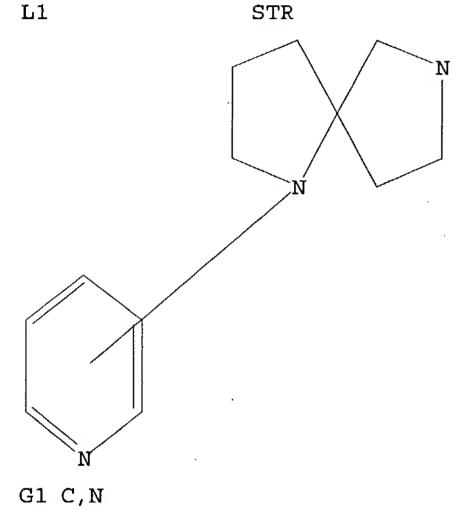
G1:C,N

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS

#### L1 STRUCTURE UPLOADED

=> d l1 L1 HAS NO ANSWERS



Structure attributes must be viewed using STN Express query preparation.

0 TO

=> s l1

SAMPLE SEARCH INITIATED 15:12:24 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 307 TO ITERATE

100.0% PROCESSED 307 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 5089 TO 7191

PROJECTED TTERATIONS: 508
PROJECTED ANSWERS:

L2 0 SEA SSS SAM L1

=> s l1 ful

10607930

FULL SEARCH INITIATED 15:12:29 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 6161 TO ITERATE

100.0% PROCESSED 6161 ITERATIONS

4 ANSWERS

SEARCH TIME: 00.00.01

L3 4 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 155.42 155.63

FULL ESTIMATED COST

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FILE COVERS 1907 - 22 Sep 2004 VOL 141 ISS 13 FILE LAST UPDATED: 21 Sep 2004 (20040921/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 13

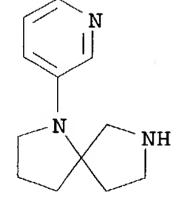
L4 1 L3

=> d abs bib hitstr

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN GI

ABCompds., pharmaceutical compns. including the compds., and methods of preparation and use thereof are disclosed. The compds. are N-aryl diazaspirocyclic compds. (shown as I and II; variables defined below; e.g. III), bridged analogs of N-heteroaryl diazaspirocyclic compds., or prodrugs or metabolites of these compds. The aryl group can be a five or six-membered heterocyclic ring (heteroaryl). The compds. and compns. can be used to treat and/or prevent a wide variety of conditions or disorders, particularly those disorders characterized by dysfunction of nicotinic cholinergic neurotransmission, including disorders involving neuromodulation of neurotransmitter release, such as dopamine release. CNS disorders, which were characterized by an alteration in normal neurotransmitter release, are another example of disorders that can be treated and/or prevented. The compds. and compns. can also be used to alleviate pain. The compds. can alter the number of nicotinic cholinergic receptors of the brain of the patient, exhibit neuroprotective effects and when employed in effective amts., not result in appreciable adverse side effects (e.g. side effects such as significant increases in blood pressure and heart rate, significant neg. effects upon the gastrointestinal tract, and significant effects upon skeletal muscle). For the  $\alpha 4\beta 2$ subtype, the Ki value for each of the examples of I was <1  $\mu$ M, indicating that I bind tightly to the receptor. Although the methods of preparation are not claimed, 13 example prepns. are included. For example, III was prepared in 5 steps (76, 93, 96, 66 and 88 % yields, resp.) starting from Et (S)-N-benzylpyrrolidine-2-carboxylate and nitroethylene and involving intermediates Et 2-(2-nitroethyl)-1-benzylpyrrolidine-2carboxylate, 6-benzyl-2,6-diazaspiro[4.4]nonan-1-one, 1-benzyl-1,7diazaspiro[4.4] nonane and 1-benzyl-7-(3-pyridyl)-1,7diazaspiro[4.4] nonane. For I: Q1 is (CZ2)u; QII is (CZ2)v; QIII is (CZ2)w; and QIV is (CZ2)x; u, v, w and x are individually 0-4, preferably 0-3; R is H, lower alkyl, acyl, alkoxycarbonyl or aryloxycarbonyl; Z is H

```
and (un) substituted alkyl, cycloalkyl, heterocyclyl, aryl, alkylaryl,
     arylalkyl; Cy is a six membered ring linked via C to the N of the rest of
     I and each of the remaining ring atoms = N, N bonded to O or C bonded to a
     substituent species, wherein ≤3 are N or N bonded to O, or Cy is a
     five 5-membered heteroarom. ring linked via C to the N of the rest of I;
     addnl. details are given in the claims. For II: QV = (CZ2)y; QVI =
     (CZ2)z; y and z = 0-4; the bridged diazaspirocyclic ring contains 8-13
     members; the rest of the variables are defined similarly to those for I.
     2004:41475 CAPLUS
AN
DN
     140:111404
     Preparation of N-aryl diazaspirocyclic compounds as nicotinic cholinergic
TI
     receptor modulators for treating nervous system and other disorders
    Bhatti, Balwinder S.; Miller, Craig H.; Schmidt, Jeffrey D.
IN
     Tarqacept, Inc., USA
PA
     PCT Int. Appl., 101 pp.
SO
     CODEN: PIXXD2
DT
     Patent
LA
     English
FAN. CNT 1
     PATENT NO.
                         KIND
                                DATE
                                            APPLICATION NO.
                                                                    DATE
PI
     WO 2004005293
                          A2
                                20040115
                                            WO 2003-US20524
                                                                    20030627
     WO 2004005293
                          A3
                                20040513
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
             PL, PT, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US,
             UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,
             CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC,
             NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
             GW, ML, MR, NE, SN, TD, TG
    US 2004067930
                          A1
                                20040408
                                            US 2003-607930
                                                                    20030627
PRAI US 2002-394337P
                          P
                                20020705
OS
    MARPAT 140:111404
     646055-65-4P, 1-(3-Pyridyl)-1,7-diazaspiro[4.4] nonane
IT
    RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic
     preparation); THU (Therapeutic use); BIOL (Biological study); PREP
     (Preparation); RACT (Reactant or reagent); USES (Uses)
        (drug candidate; preparation of N-aryl diazaspirocyclic compds. as nicotinic
        cholinergic receptor modulators for treating nervous system and other
        disorders)
     646055-65-4 CAPLUS
RN
    1,7-Diazaspiro[4.4]nonane, 1-(3-pyridinyl)- (9CI) (CA INDEX NAME)
CN
```



IT **646055-61-0P**, 1-(3-Pyridyl)-1,7-diazaspiro[4.4] nonane

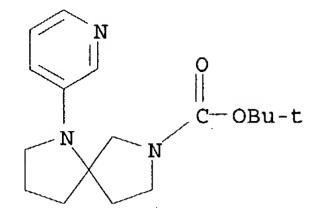
RN

CN

dihydrochloride 646056-36-2P, 7-Methyl-1-(3-pyridyl)-1,7diazaspiro[4.4]nonane
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
(Uses)
 (drug candidate; preparation of N-aryl diazaspirocyclic compds. as nicotinic cholinergic receptor modulators for treating nervous system and other disorders)
646055-61-0 CAPLUS
1,7-Diazaspiro[4.4]nonane, 1-(3-pyridinyl)-, dihydrochloride (9CI) (CA INDEX NAME)

### •2 HCl

RN 646056-36-2 CAPLUS CN 1,7-Diazaspiro[4.4]nonane, 7-methyl-1-(3-pyridinyl)- (9CI) (CA INDEX NAME)



=> file registry COST IN U.S. DOLLARS TOTAL SINCE FILE SESSION ENTRY 161.27 5.64 FULL ESTIMATED COST DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL SESSION ENTRY -0.70-0.70 CA SUBSCRIBER PRICE

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STRUCTURE FILE UPDATES: 21 SEP 2004 HIGHEST RN 749178-43-6 DICTIONARY FILE UPDATES: 21 SEP 2004 HIGHEST RN 749178-43-6

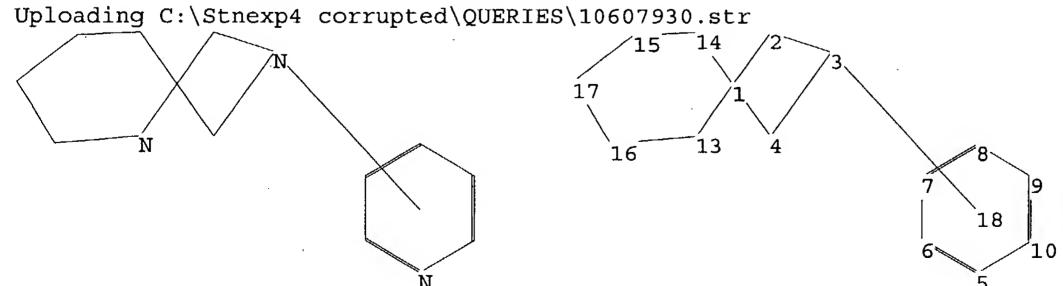
TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

=>



ring nodes :

1 2 3 4 5 6 7 8 9 10 13 14 15 16 17

ring bonds :

1-4 1-2 1-13 1-14 2-3 3-4 5-6 5-10 6-7 7-8 8-9 9-10 13-16 14-15 15-17

16-17

exact/norm bonds :

1-4 1-2 1-13 1-14 2-3 3-4 13-16 14-15 15-17 16-17

normalized bonds :

5-6 5-10 6-7 7-8 8-9 9-10

G1:C,N

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS

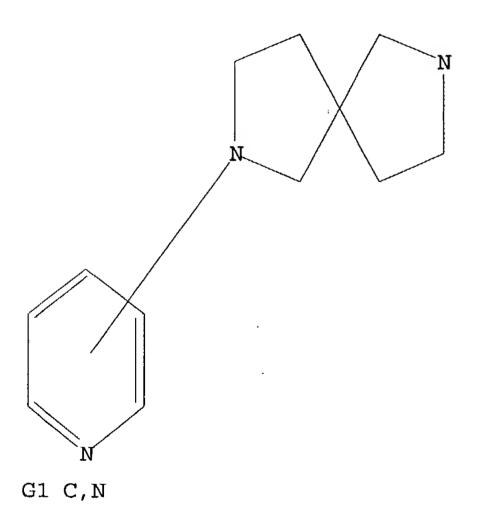
L5 STRUCTURE UPLOADED

=> d 15

L5 HAS NO ANSWERS

L5

STR



Structure attributes must be viewed using STN Express query preparation.

=> s 15

SAMPLE SEARCH INITIATED 15:14:06 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 44 TO ITERATE

100.0% PROCESSED

44 ITERATIONS

2 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

10607930

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: PROJECTED ANSWERS:

483 TO 1277 2 TO 124

L6

2 SEA SSS SAM L5

=> s 15 ful

FULL SEARCH INITIATED 15:14:15 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 881 TO ITERATE

881 ITERATIONS

100.0% PROCESSED

19 ANSWERS

TOTAL

SESSION

SEARCH TIME: 00.00.01

L7 19 SEA SSS FUL L5

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE
ENTRY

FULL ESTIMATED COST 155.42 316.69

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE ' TOTAL ENTRY SESSION

CA SUBSCRIBER PRICE 0.00 -0.70

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FILE COVERS 1907 - 22 Sep 2004 VOL 141 ISS 13 FILE LAST UPDATED: 21 Sep 2004 (20040921/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 17

L8 8 L7

=> d abs bib fhitstr 1-8

L8 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN GI

ABCompds., pharmaceutical compns. including the compds., and methods of preparation and use thereof are disclosed. The compds. are N-aryl diazaspirocyclic compds. (shown as I and II; variables defined below; e.g. III), bridged analogs of N-heteroaryl diazaspirocyclic compds., or prodrugs or metabolites of these compds. The aryl group can be a five or six-membered heterocyclic ring (heteroaryl). The compds. and compns. can be used to treat and/or prevent a wide variety of conditions or disorders, particularly those disorders characterized by dysfunction of nicotinic cholinergic neurotransmission, including disorders involving neuromodulation of neurotransmitter release, such as dopamine release. CNS disorders, which were characterized by an alteration in normal neurotransmitter release, are another example of disorders that can be treated and/or prevented. The compds. and compns. can also be used to alleviate pain. The compds. can alter the number of nicotinic cholinergic receptors of the brain of the patient, exhibit neuroprotective effects and when employed in effective amts., not result in appreciable adverse side effects (e.g. side effects such as significant increases in blood pressure and heart rate, significant neg. effects upon the gastrointestinal tract, and significant effects upon skeletal muscle). For the  $\alpha 4\beta 2$ subtype, the Ki value for each of the examples of I was <1  $\mu M$ , indicating that I bind tightly to the receptor. Although the methods of preparation are not claimed, 13 example prepns. are included. For example, III was prepared in 5 steps (76, 93, 96, 66 and 88 % yields, resp.) starting from Et (S)-N-benzylpyrrolidine-2-carboxylate and nitroethylene and involving intermediates Et 2-(2-nitroethyl)-1-benzylpyrrolidine-2carboxylate, 6-benzyl-2,6-diazaspiro[4.4]nonan-1-one, 1-benzyl-1,7diazaspiro[4.4] nonane and 1-benzyl-7-(3-pyridyl)-1,7diazaspiro[4.4] nonane. For I: Q1 is (CZ2)u; QII is (CZ2)v; QIII is (CZ2)w; and QIV is (CZ2)x; u, v, w and x are individually 0-4, preferably 0-3; R is H, lower alkyl, acyl, alkoxycarbonyl or aryloxycarbonyl; Z is H

```
and (un) substituted alkyl, cycloalkyl, heterocyclyl, aryl, alkylaryl,
     arylalkyl; Cy is a six membered ring linked via C to the N of the rest of
     I and each of the remaining ring atoms = N, N bonded to O or C bonded to a
     substituent species, wherein ≤3 are N or N bonded to O, or Cy is a
     five 5-membered heteroarom. ring linked via C to the N of the rest of I;
     addnl. details are given in the claims. For II: QV = (CZ2)y; QVI =
     (CZ2)z; y and z = 0-4; the bridged diazaspirocyclic ring contains 8-13
     members; the rest of the variables are defined similarly to those for I.
     2004:41475 CAPLUS
AN
DN
     140:111404
     Preparation of N-aryl diazaspirocyclic compounds as nicotinic cholinergic
TI
     receptor modulators for treating nervous system and other disorders
IN
     Bhatti, Balwinder S.; Miller, Craig H.; Schmidt, Jeffrey D.
     Targacept, Inc., USA
PA
     PCT Int. Appl., 101 pp.
SO
     CODEN: PIXXD2
     Patent
\mathbf{DT}
     English
LA
FAN.CNT 1
     PATENT NO.
                         KIND
                                DATE
                                             APPLICATION NO.
                                                                    DATE
                          _ _ _ _
                          A2
                                 20040115
PI
     WO 2004005293
                                             WO 2003-US20524
                                                                     20030627
     WO 2004005293
                          A3
                                 20040513
            AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
             PL, PT, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US,
             UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,
             CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC,
             NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
             GW, ML, MR, NE, SN, TD, TG
     US 2004067930
                          A1
                                 20040408
                                            US 2003-607930
                                                                     20030627
PRAI US 2002-394337P
                          P
                                20020705
OS
     MARPAT 140:111404
IT
     646056-44-2P, 2-(3-Pyridyl)-2,7-diazaspiro[4.4] nonane
     RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
     (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
     (Uses)
        (drug candidate; preparation of N-aryl diazaspirocyclic compds. as nicotinic
        cholinergic receptor modulators for treating nervous system and other
        disorders)
     646056-44-2 CAPLUS
RN
     2,7-Diazaspiro[4.4] nonane, 2-(3-pyridinyl)- (9CI) (CA INDEX NAME)
CN
```

L8 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN GI

$$R^4$$
 $R^3$ 
 $R^5$ 
 $N^{R}^{1}R^2$ 

Title compds. [I; R1, R2 = H, (substituted) alkyl, alkenyl, alkynyl, ABcycloalkylalkyl, aralkyl, etc.; R1R2N = 4-11 membered (bridged) (substituted) heterocyclyl; R3, R4 = H, halo, (substituted) alkyl, alkenyl, alkynyl, perfluoroalkyl, cycloalkyl, cycloalkylalkyl, aryl, aralkyl, heteroaralkyl, OR7, N(R7)2, cyano, etc.; R3R4 = atoms to form 5-7 membered (substituted) ring; R5 = H, halo, alkyl, perfluoroalkyl, OR7, N(R7)2; R6 = (CH2)nR7, (CH2)nCN, (CH2)nCO2R7, (CH2)nOR7, (CH2)nN(R7)2, etc.; R7 = H, alkyl, aryl, heteroaryl, cycloalkyl, aralkyl, aralkenyl, cycloalkylalkenyl, etc.; n = 0-5], were prepared for the treatment or prevention of obesity, eating disorders, osteoarthritis, cancer, AIDS wasting, cachexia, frailty, mental disorders, stress, cognitive disorders, sexual function, reproductive function, kidney function, locomotor disorders, attention deficit disorder (ADD), substance abuse disorders and dyskinesias, Huntington's disease, epilepsy, memory function, and spinal muscular atrophy. Thus, 2-piperidin-1-ylquinolin-6-amine and (2E)-3-(4-chlorophenyl)prop-2-enoyl chloride were stirred 3 h in HOAc to give (2E)-3-(4-chlorophenyl)-N-(2-piperidin-1-ylquinolin-6-yl)prop-2enamide hydrochloride. I bound to MCH-1R receptors with IC50 = 0.1-10000 nM.

AN 2003:434303 CAPLUS

DN 139:36445

TI Preparation of 2-aminoquinolines as melanin concentrating hormone receptor (MCH-1R) antagonists.

IN Devita, Robert J.; Chang, Lehua; Chaung, Danny; Hoang, Myle; Jiang,
Jinlong; Lin, Peter; Sailer, Andreas W.; Young, Jonathan R.

PA Merck & Co., Inc., USA

SO PCT Int. Appl., 178 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.				KIND DATE		APPLICATION NO.					DATE						
ΡI	WO 2003045313			A2 2003		0605	0605 WO 2002-US37556					20021122						
	WO 2003045313				A3	A3 20030904												
		<b>W</b> :	AE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,
			CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,
			GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KR,	KZ,	LC,	LK,	LR,	LS,
	•		LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	OM,	PH,	PL,
			PT,	RO,	RU,	SC,	SD,	SE,	SG,	SI,	SK,	SL,	TJ,	TM,	TN,	TR,	TT,	TZ,
			UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW,	AM,	AZ,	BY,	KG,	KZ,	MD,
			RU,	TJ,	TM													
		RW:	GH,	GM,	KΕ,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AT,	BE,	BG,
								EE,										-
			PT,	SE,	SK,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,
			NE,	SN,	TD,	TG												
	EP 1450801				A2 20040901			EP 2002-789837				20021122						
		R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	.GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,

IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK

PRAI US 2001-333581P P 20011127

WO 2002-US37556 W 20021122

OS MARPAT 139:36445

539852-73-8P, N-[2-(7-Methyl-2,7-diazaspiro[4.4]non-2-yl)quinolin-6-yl]-3-[4-(trifluoromethyl)phenyl]propanamide RL: PAC (Pharmacological activity): SPN (Synthetic preparation); T

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(claimed compound; preparation of 2-aminoquinolines as melanin concentrating hormone

receptor (MCH-1R) antagonists)

RN 539852-73-8 CAPLUS

CN Benzenepropanamide, N-[2-(7-methyl-2,7-diazaspiro[4.4]non-2-yl)-6-quinolinyl]-4-(trifluoromethyl)- (9CI) (CA INDEX NAME)

$$\begin{array}{c} \text{O} \\ \text{NH-C-CH}_2\text{-CH}_2 \end{array}$$

L8 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN

AB The errors were not reflected in the abstract or the index entries.

AN 1995:2483 CAPLUS

DN 123:164953

TI Anti-mycobacterium avium activity of quinolones: in vitro activities. [Erratum to document cited in CA120:27300f]

AU Klopman, Gilles; Wang, Shaomeng; Jacobs, Michael R.; Bajaksouzian, Saralee; Edmonds, Kay; Ellner, Jerrold J.

CS Chem. Dep., Case West. Reserve Univ., Cleveland, OH, 44106, USA

SO Antimicrobial Agents and Chemotherapy (1993), 37(12), 2766 CODEN: AMACCQ; ISSN: 0066-4804

DT Journal

LA English

IT 91188-27-1

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(Mycobacterium avium sensitivity to (Erratum))

RN 91188-27-1 CAPLUS

CN 1,8-Naphthyridine-3-carboxylic acid, 1-ethyl-6-fluoro-1,4-dihydro-7-(7-methyl-2,7-diazaspiro[4.4]non-2-yl)-4-oxo- (9CI) (CA INDEX NAME)

L8 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN

The MICs of 88 quinolones against 14 selected reference and clin. strains of ABMycobacterium avium-M. intracellulare complex were determined Agents tested included ciprofloxacin, sparfloxacin (PD 131501), and 86 other exptl. quinolones. Test strains were selected to represent various susceptibilities to ciprofloxacin and other drug resistance profiles. MICs were determined by the microdilution method in 7HSF broth, with incubation for 14 days at 35°. The results showed 25 of the quinolones to be active against the strains, with MICs for 90% of the strains (MIC90s) of 2 to 32  $\mu\text{g/mL}$ . Ten of these compds. had activities equivalent to or greater than that of ciprofloxacin. The most active compound was PD 125354, with an MIC50 of 0.5  $\mu g/mL$  and an MIC90 of 2  $\mu g/mL$ ; comparable values for ciprofloxacin were 4 and 8  $\mu g/mL$ , resp. The next most active compds., with MIC90s of 4  $\mu$ g/mL, were sparfloxacin (PD 131501), PD 123982, PD 135144, and PD 119421. MIC90s of PD 131575, PD 126889, PD 122642, PD 139586, and PD 143289 were 8  $\mu g/mL$ . Further evaluation of the most active agents is warranted, as is assessment of structure-activity relationships of active and inactive agents to elucidate the active portions of the compds. and to lead to the development of compds. with enhanced activity.

AN 1994:27300 CAPLUS

DN 120:27300

TI Anti-mycobacterium avium activity of quinolones: in vitro activities

AU Klopman, Gilles; Wang, Shaomeng; Jacobs, Michael R.; Bajaksouzian, Saralee; Edmonds, Kay; Ellner, Jerrold J.

CS Chem. Dep., Case West. Reserve Univ., Cleveland, OH, 44106, USA

SO Antimicrobial Agents and Chemotherapy (1993), 37(9), 1799-806 CODEN: AMACCQ; ISSN: 0066-4804

DT Journal

LA English

IT 91188-27-1

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(Mycobacterium avium sensitivity to)

RN 91188-27-1 CAPLUS

CN 1,8-Naphthyridine-3-carboxylic acid, 1-ethyl-6-fluoro-1,4-dihydro-7-(7-methyl-2,7-diazaspiro[4.4]non-2-yl)-4-oxo- (9CI) (CA INDEX NAME)

# L8 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN GI

Fluoroquinolone antibacterials having the 7-position (10-position of pyridobenzoxazines) substituted with 2,7-diazaspiro[4.4]nonane, 1,7-diazaspiro[4.4]nonane, or 2,8-diazaspiro[5.5]undecane (e.g. I (X = CF, CH, N) were prepared and their biol. activities were compared with piperazine and pyrrolidine substituted analogs. Most exhibited potent Gram-pos. and Gram-neg. activity, especially when side chain was N-alkylated. Thus, the quinolinecarboxylic acid II was treated with 2-methyl-2,7-diazaspiro[4.4]nonane to give I (X = CH).

AN 1990:497432 CAPLUS

DN 113:97432

TI Quinolone antibacterial agents substituted at the 7-position with spiroamines. Synthesis and structure-activity relationships

AU Culbertson, Townley P.; Sanchez, Joseph P.; Gambino, Laura; Sesnie, Josephine A.

CS Parke-Davis Pharm. Res. Div., Warner-Lambert Co., Ann Arbor, MI, 48105, USA

SO Journal of Medicinal Chemistry (1990), 33(8), 2270-5 CODEN: JMCMAR; ISSN: 0022-2623

DT Journal

LA English

OS CASREACT 113:97432

IT 91188-27-1P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation and bactericidal activity of)

RN 91188-27-1 CAPLUS

CN 1,8-Naphthyridine-3-carboxylic acid, 1-ethyl-6-fluoro-1,4-dihydro-7-(7-methyl-2,7-diazaspiro[4.4]non-2-yl)-4-oxo- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & \text{Et} & \text{Me} \\ \hline \\ \text{N} & \text{N} & \\ \hline \\ \text{N} & \\ \end{array}$$

L8 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN GI

$$X$$
 $X$ 
 $CO_2R^2$ 
 $R^3$ 
 $R^3$ 
 $R^1$ 
 $I$ 
 $Y$ 
 $CO_2H$ 
 $R^3$ 
 $R^3$ 

The title compds. [I; A = N, CR9; R1 = Me, Et, cyclopropyl, etc.; R2 = H, alkyl, (5-methyl-2-oxo-1,3-dioxol-4-yl)methyl; R3 = Me, 13 N-attached heterocyclyl; R9 = H, halo, Me, cyano, NO2; R1R9 = OCH2CHMe, SCH2CHMe, CH2CH2CHMe] were prepared C6F5COCH2CO2Et (preparation given) was refluxed 2 h with HC(OEt)3 in Ac2O to give C6F5COC(CO2Et):CHOEt which was treated overnight with cyclopropylamine in EtOH to give C6F5COC(CO2Et):CHNHR (R = cyclopropyl). The latter was refluxed 3 h in DMF containing NaF to give, after saponification, quinolonecarboxylate II (R3 = Y = F) which was refluxed

3 h with 1-methylpiperazine in MeCN/DMF containing Dabco to give II (R3 = 4-methyl-1-piperazinyl, Y = F) (III). Tablets were prepared each containing

583.0, cellulose 55.0, starch 72.0, polyvinylpyrrolidone 30.0, SiO2 5.0, and Mg stearate 5.0 mg with a coating comprising (hydroxypropyl)methylcellulose 6.0, Macrogol 40,000 2.0, and TiO2 2.0 mg. II (R3 = 3-methyl-1-piperazinyl, Y = NH2) had a min. inhibitory concentration of

0.5 (units not given) against Escherichia coli 455/7.

AN 1989:114697 CAPLUS

DN 110:114697

III

TI Preparation of 5-substituted quinolone- and naphthyridonecarboxylic acids as antibacterial agents

IN Petersen, Uwe; Grohe, Klaus; Schriewer, Michael; Schenke, Thomas; Haller, Ingo; Metzger, Karl; Endermann, Rainer; Zeiler, Hans Joachim

PA Bayer A.-G., Fed. Rep. Ger.

SO Ger. Offen., 32 pp.

CODEN: GWXXBX

DT Patent LA German

LA Germa FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE ----\_\_\_\_\_  $\mathtt{PI}$ DE 3711193 A1 19881013 DE 1987-3711193 19870402 NO 8801121 Α NO 1988-1121 19881003 19880314 EP 284935 A1 19881005 EP 1988-104452 19880321 R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, NL, SE AU 8813811 **A**1 AU 1988-13811 19881006 19880328 DD 274029 **A5** 19891206 DD 1988-314159 19880329 DK 8801802 DK 1988-1802 A: 19881003 19880330 FI 1988-1501 FI 8801501 Α 19881003 19880330 CN 88101741 Α 19881116 CN 1988-101741 19880331

	ZA 8802318		A	19881228	ZA	1988-2318	19880331
	JP 63258855	5	A2	19881026	JP	1988-78298	19880401
	HU 47098		A2	19890130	HU	1988-1619	19880401
	HU 201050		В	19900928			
PRAI	DE 1987-37	11193		19870402			
os	CASREACT 1	10:114697;	MARPAT	110:114697			

OS CASREACT 110:1146 IT 119354-28-8P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as antibacterial agent)

RN 119354-28-8 CAPLUS

CN 1,8-Naphthyridine-3-carboxylic acid, 5-amino-1-ethyl-6-fluoro-1,4-dihydro-7-(7-methyl-2,7-diazaspiro[4.4]non-2-yl)-4-oxo- (9CI) (CA INDEX NAME)

L8 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN GI

$$F$$
 $CO_2R^1$ 
 $H_2NCH_2$ 
 $F$ 
 $T$ 

AB The title compds. (I; X = FC, N; R1 = H, alkyl, cation; R2 = amino, heterocyclyl) were prepared Thus, 2,3,4,5-F4C6HCO2H was converted to its acid chloride and condensed with EtO2CCH2CO2H to give 2,3,4,5-F4C6HCOCH2CO2H. This was cyclocondensed with (EtO)3CH and cyclopropylamine to give I (X = FC, R1 = H, R2 = F). The latter was treated with 3-pyrrolidinemethanamine to give 7-[3-(aminomethyl)-1-pyrrolidinyl]-3-quinolinecarboxylic acid derivative II. II had a min. inhibitory concentration of <0.1 μg/mL against, e.g., Escherichia coli Vogel. AN 1986:34013 CAPLUS

II

DN 104:34013

7-Substituted-1-cyclopropyl-6,8-difluoro-1,4-dihydro-4-oxo-3-quinolinecarboxylic acids; 7-substituted-1-cyclopropyl-1,4-dihydro-6-fluoro-4-oxo-1,8-naphthyridine-3-carboxylic acids and their derivatives Culbertson, Townley P.; Mich, Thomas F.; Domagala, John M.; Nichols,

Jeffrey B.

PA Warner-Lambert Co. , USA

SO Eur. Pat. Appl., 137 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE		
ΡI	EP 153163	A2	19850828	EP 1985-301009	19850215		
	EP 153163	A3	19860129				
	EP 153163	B1	19891227				
	R: AT, BE, CH,	DE, FR	, GB, IT,	LI, LU, NL, SE			
	US 4665079	Α	19870512	US 1985-692820	19850123		
	ZA 8500854	A	19860924	ZA 1985-854	19850204		
	CA 1289956	Al	19911001	CA 1985-473502	19850204		
	IL 74286	A1	19880731	IL 1985-74286	19850208		
	AU 8538618	A1	19850822	AU 1985-38618	19850211		
	AU 568004	B2	19871210				
		Α	19850818	DK 1985-687	19850214		
		В	19910826				
	DK 161889	C	19920203				
	FI 8500631		19850818	FI 1985-631	19850215		
	FI 83312	В	19910315				
	FI 83312	C	19910625				
	NO 8500614	Α	19850819		19850215		
	NO 161370	В	19890502				
	NO 161370	C	19890809		,		
	JP 60214773	A2	19851028		19850215		
	JP 07055945	B4	19950614				
	HU 37149	0	19851128	HU 1985-580	19850215		
	ES 540441	A1	19870501		19850215		
	AT 48997	E	19900115	AT 1985-301009	19850215		
	JP 07173160	A2	19950711	JP 1994-278595	19941019		
PRAI			19840217				
	US 1985-692820		19850123				
	US 1982-416406		19820909				
	US 1983-522275		19830812				
	IL 1983-69601		19830830				
0.0	EP 1985-301009		19850215				
os	CASREACT 104:34013						

IT 91188-24-8P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of, as bactericide)

RN 91188-24-8 CAPLUS

CN 1,8-Naphthyridine-3-carboxylic acid, 7-(2,7-diazaspiro[4.4]non-2-yl)-1-ethyl-6-fluoro-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)

L8 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN GI

$$\begin{array}{c|c}
R & CO_2R^3 \\
\hline
R^1 & Z & N \\
\hline
R^2 & I
\end{array}$$

$$R$$
 $CO_2R^3$ 
 $R^5$ 
 $MeN$ 
 $NH$ 
 $III$ 

AB Title compds. I and II [R = H, halo; R1 = (un)substituted N heterocycle; R2 = alkyl, haloalkyl, hydroxyalkyl, cycloalkyl, vinyl; R3 = H, alkyl, cation; R4, R5 = H, alkyl; Z = H, (un)substituted CH] were prepared Thus, II (R = R1 = F, R3 = R4 = H, R5 = Me) was treated with diazaspirononane III.2HCl, prepared from Et 3-(ethoxycarbonyl)-5-oxo-3-pyrrolidineacetate, to give II (R = 7-methyl-2,7-diazaspiro[4,4]non-2-yl), which had a min. inhibitory concentration against Staphylococcus aureus UC-76 of 0.006 μg/mL. AN 1984:472740 CAPLUS

DN 101:72740

TI Antibacterial agents

IN Culbertson, Townley P.; Mich, Thomas F.; Domagala, John M.; Nichols, Jeffrey B.

PA Warner-Lambert Co. , USA

SO Eur. Pat. Appl., 125 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 3

	_				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	- <b>-</b>				
ΡI	EP 106489	A2	19840425	EP 1983-305148	19830906
	EP 106489	A3	19850424		
	EP 106489	B1	19880727		
	R: AT, BE, CH,	DE, FR	, GB, IT, LI	, LU, NL, SE	
	ZA 8306357	A	19840425	ZA 1983-6357	19830826
	IL 69601	Al	19870831	IL 1983-69601	19830830
	IL 80848	A1	19880930	IL 1983-80848	19830830
	IL 80849	A1	19881031	IL 1983-80849	19830830
	FI 8303151	Α	19840310	FI 1983-3151	19830905

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FI 83513
                           В
                                  19910415
     FI 83513
                           C
                                  19910725
     AU 8318698
                           A1
                                  19840315
                                               AU 1983-18698
                                                                       19830905
     AU 562286
                           B2
                                  19870604
     AT 35987
                            E
                                  19880815
                                               AT 1983-305148
                                                                       19830906
                                               CS 1983-6498
                                                                       19830907
     CS 246065
                            B2
                                  19861016
                           Α
                                  19840310
     DK 8304074
                                               DK 1983-4074
                                                                       19830908
     DK 171098
                           B1
                                  19960603
     NO 8303206
                           Α
                                  19840312
                                               NO 1983-3206
                                                                       19830908
     NO 164418
                            В
                                  19900625
     NO 164418
                            C.
                                  19901003
                                               JP 1983-164271
                           A2
                                  19840416
     JP 59067269
                                                                       19830908
     JP 07042284
                           B4
                                  19950510
     HU 31718
                                  19840528
                                               HU 1983-3140
                           0
                                                                       19830908
     HU 196986
                           В
                                  19890228
     DD 216010
                                               DD 1983-254624
                           A5
                                  19841128
                                                                       19830908
     ES 525493
                           A1
                                  19850116
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     SU 1360584
                                  19871215
                                               SU 1983-3659624
                           A3
                                                                       19831103
     ES 529934
                           Α1
                                  19850601
                                               ES 1984-529934
                                                                       19840222
     ES\529936
                                               ES 1984-529936
                           A1
                                  19850616
                                                                       19840222
     ES 529937
                           A1
                                  19850616
                                               ES 1984-529937
                                                                       19840222
     ES 529935
                                  19850701
                           A1
                                               ES 1984-529935
                                                                       19840222
     ES 529933
                                  19851016
                           A1
                                               ES 1984-529933
                                                                       19840222
     SU 1321376
                           A3
                                  19870630
                                               SU 1984-3732809
                                                                       19840427
                           A3
     SU 1314954
                                  19870530
                                               SU 1984-3736502
                                                                       19840503
     CS 246083
                           B2
                                  19861016
                                               CS 1984-4630
                                                                       19840618
                                               CS 1984-4631
     CS 246084
                           B2
                                  19861016
                                                                       19840618
     CS 247180
                           B2
                                  19861218
                                               CS 1984-4632
                                                                       19840618
                           A2
                                  19890608
     JP 01146880
                                               JP 1988-282640
                                                                       19881110
     JP 04210961
                           A2
                                  19920803
                                               JP 1991-53587
                                                                       19910227
     JP 06062561
                           B4
                                  19940817
     JP 07070111
                           A2
                                  19950314
                                               JP 1994-32109
                                                                       19940302
     JP 07080770
                           B4
                                  19950830
     DK 9400700
                           Α
                                  19940616
                                               DK 1994-70094
                                                                       19940616
     DK 170471
                                  19950911
                                               DK 1994-700
                           B1
                                                                       19940616
     JP 08311061
                           A2
                                  19961126
                                               JP 1996-134697
                                                                       19960529
     JP 2704984
                           B2
                                  19980126
PRAI US 1982-416406
                                  19820909
     US 1983-522275
                                  19830812
     IL 1983-69601
                                  19830830
     EP 1983-305148
                                  19830906
     CS 1983-6498
                                  19830907
     JP 1983-164271
                                  19830908
     91188-24-8P
{f TT}
     RL: BAC (Biological activity or effector, except adverse); BSU (Biological
     study, unclassified); SPN (Synthetic preparation); BIOL (Biological
     study); PREP (Preparation)
        (preparation and bactericidal activity of)
RN
     91188-24-8 CAPLUS
     1,8-Naphthyridine-3-carboxylic acid, 7-(2,7-diazaspiro[4.4]non-2-yl)-1-
CN
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ethyl-6-fluoro-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)

=> d abs bib hitstr 1-8

L8 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN GI

AB Compds., pharmaceutical compns. including the compds., and methods of preparation and use thereof are disclosed. The compds. are N-aryl diazaspirocyclic compds. (shown as I and II; variables defined below; e.g. III), bridged analogs of N-heteroaryl diazaspirocyclic compds., or prodrugs or metabolites of these compds. The aryl group can be a five or six-membered heterocyclic ring (heteroaryl). The compds. and compns. can be used to treat and/or prevent a wide variety of conditions or disorders, particularly those disorders characterized by dysfunction of nicotinic cholinergic neurotransmission, including disorders involving

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neuromodulation of neurotransmitter release, such as dopamine release.
     CNS disorders, which were characterized by an alteration in normal
     neurotransmitter release, are another example of disorders that can be
     treated and/or prevented. The compds. and compns. can also be used to
     alleviate pain. The compds. can alter the number of nicotinic cholinergic
     receptors of the brain of the patient, exhibit neuroprotective effects and
     when employed in effective amts., not result in appreciable adverse side
     effects (e.g. side effects such as significant increases in blood pressure
     and heart rate, significant neg. effects upon the gastrointestinal tract,
     and significant effects upon skeletal muscle). For the \alpha 4\beta 2
     subtype, the Ki value for each of the examples of I was <1 \mu M,
     indicating that I bind tightly to the receptor. Although the methods of
     preparation are not claimed, 13 example prepns. are included. For example, III
     was prepared in 5 steps (76, 93, 96, 66 and 88 % yields, resp.) starting
     from Et (S)-N-benzylpyrrolidine-2-carboxylate and nitroethylene and
     involving intermediates Et 2-(2-nitroethyl)-1-benzylpyrrolidine-2-
     carboxylate, 6-benzyl-2,6-diazaspiro[4.4]nonan-1-one, 1-benzyl-1,7-
     diazaspiro[4.4] nonane and 1-benzyl-7-(3-pyridyl)-1,7-
     diazaspiro[4.4] nonane. For I: Q1 is (CZ2)u; QII is (CZ2)v; QIII is
     (CZ2)w; and QIV is (CZ2)x; u, v, w and x are individually 0-4, preferably
     0-3; R is H, lower alkyl, acyl, alkoxycarbonyl or aryloxycarbonyl; Z is H
     and (un) substituted alkyl, cycloalkyl, heterocyclyl, aryl, alkylaryl,
     arylalkyl; Cy is a six membered ring linked via C to the N of the rest of
     I and each of the remaining ring atoms = N, N bonded to O or C bonded to a
     substituent species, wherein ≤3 are N or N bonded to O, or Cy is a
     five 5-membered heteroarom. ring linked via C to the N of the rest of I;
     addnl. details are given in the claims. For II: QV = (CZ2)y; QVI =
     (CZ2)z; y and z = 0-4; the bridged diazaspirocyclic ring contains 8-13
     members; the rest of the variables are defined similarly to those for I.
     2004:41475 CAPLUS
     140:111404
     Preparation of N-aryl diazaspirocyclic compounds as nicotinic cholinergic
     receptor modulators for treating nervous system and other disorders
     Bhatti, Balwinder S.; Miller, Craig H.; Schmidt, Jeffrey D.
     Targacept, Inc., USA
     PCT Int. Appl., 101 pp.
     CODEN: PIXXD2
     Patent
     English
FAN.CNT 1
     PATENT NO.
                         KIND
                                DATE
                                            APPLICATION NO.
                                                                    DATE
                                            WO 2003-US20524
     WO 2004005293
                          A2
                                20040115
                                                                    20030627
     WO 2004005293
                                20040513
                          Α3
            AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
             PL, PT, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US,
             UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
        RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,
             CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC,
             NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
             GW, ML, MR, NE, SN, TD, TG
     US 2004067930
                          A1
                                20040408
                                            US 2003-607930
                                                                    20030627
PRAI US 2002-394337P
                          P
                                20020705
    MARPAT 140:111404
    646056-44-2P, 2-(3-Pyridyl)-2,7-diazaspiro[4.4] nonane
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646056-52-2P, 2-(5-Methoxy-3-pyridyl)-2,7-diazaspiro[4.4]nonane

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646056-53-3P, 2-[5-(Cyclopentyloxy)-3-pyridyl]-2,7diazaspiro[4.4] nonane 646056-54-4P, 2-(5-Phenoxy-3-pyridyl)-2,7diazaspiro[4.4] nonane 646056-55-5P, 2-[5-(4-Hydroxyphenoxy)-3pyridyl] -2,7-diazaspiro[4.4] nonane 646056-56-6P, 2-(5-Ethynyl-3-pyridyl)-2,7-diazaspiro[4.4]nonane 646056-57-7P, 2-(6-Chloro-3-pyridyl)-2,7-diazaspiro[4.4]nonane 646056-59-9P, 2-Methyl-7-(3-pyridyl)-2,7-diazaspiro[4.4] nonane 646056-60-2P, 2-Methyl-7-(5-methoxy-3-pyridyl)-2,7-diazaspiro[4.4]nonane 646056-61-3P, 2-Methyl-7-(5-phenoxy-3-pyridyl)-2,7diazaspiro[4.4] nonane RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (drug candidate; preparation of N-aryl diazaspirocyclic compds. as nicotinic cholinergic receptor modulators for treating nervous system and other disorders) 646056-44-2 CAPLUS RN2,7-Diazaspiro[4.4]nonane, 2-(3-pyridinyl)- (9CI) CN(CA INDEX NAME)

RN 646056-52-2 CAPLUS CN 2,7-Diazaspiro[4.4]nonane, 2-(5-methoxy-3-pyridinyl)- (9CI) (CA INDEX NAME)

RN 646056-53-3 CAPLUS CN 2,7-Diazaspiro[4.4]nonane, 2-[5-(cyclopentyloxy)-3-pyridinyl]- (9CI) (CA INDEX NAME)

RN 646056-54-4 CAPLUS

CN 2,7-Diazaspiro[4.4]nonane, 2-(5-phenoxy-3-pyridinyl)- (9CI) (CA INDEX NAME)

RN 646056-55-5 CAPLUS

CN Phenol, 4-[[5-(2,7-diazaspiro[4.4]non-2-yl)-3-pyridinyl]oxy]- (9CI) (CA INDEX NAME)

RN 646056-56-6 CAPLUS

CN 2,7-Diazaspiro[4.4]nonane, 2-(5-ethynyl-3-pyridinyl)- (9CI) (CA INDEX NAME)

RN 646056-57-7 CAPLUS

CN 2,7-Diazaspiro[4.4] nonane, 2-(6-chloro-3-pyridinyl) - (9CI) (CA INDEX NAME)

RN 646056-59-9 CAPLUS

CN 2,7-Diazaspiro[4.4]nonane, 2-methyl-7-(3-pyridinyl)- (9CI) (CA INDEX NAME)

RN 646056-60-2 CAPLUS

CN 2,7-Diazaspiro[4.4]nonane, 2-(5-methoxy-3-pyridinyl)-7-methyl- (9CI) (CA INDEX NAME)

RN 646056-61-3 CAPLUS

CN 2,7-Diazaspiro[4.4]nonane, 2-methyl-7-(5-phenoxy-3-pyridinyl)- (9CI) (CA INDEX NAME)

L8 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN GI

$$R^4$$
 $R^3$ 
 $N^{1}R^2$ 

AB Title compds. [I; R1, R2 = H, (substituted) alkyl, alkenyl, alkynyl,

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cycloalkylalkyl, aralkyl, etc.; R1R2N = 4-11 membered (bridged) (substituted) heterocyclyl; R3, R4 = H, halo, (substituted) alkyl, alkenyl, alkynyl, perfluoroalkyl, cycloalkyl, cycloalkylalkyl, aryl, aralkyl, heteroaralkyl, OR7, N(R7)2, cyano, etc.; R3R4 = atoms to form 5-7 membered (substituted) ring; R5 = H, halo, alkyl, perfluoroalkyl, OR7, N(R7)2; R6 = (CH2)nR7, (CH2)nCN, (CH2)nCO2R7, (CH2)nOR7, (CH2)nN(R7)2, etc.; R7 = H, alkyl, aryl, heteroaryl, cycloalkyl, aralkyl, aralkenyl, cycloalkylalkenyl, etc.; n = 0-5], were prepared for the treatment or prevention of obesity, eating disorders, osteoarthritis, cancer, AIDS wasting, cachexia, frailty, mental disorders, stress, cognitive disorders, sexual function, reproductive function, kidney function, locomotor disorders, attention deficit disorder (ADD), substance abuse disorders and dyskinesias, Huntington's disease, epilepsy, memory function, and spinal muscular atrophy. Thus, 2-piperidin-1-ylquinolin-6-amine and (2E) -3-(4-chlorophenyl)prop-2-enoyl chloride were stirred 3 h in HOAc to give (2E)-3-(4-chlorophenyl)-N-(2-piperidin-1-ylquinolin-6-yl)prop-2enamide hydrochloride. I bound to MCH-1R receptors with IC50 = 0.1-10000 nM. 2003:434303 CAPLUS 139:36445 Preparation of 2-aminoquinolines as melanin concentrating hormone receptor (MCH-1R) antagonists. Devita, Robert J.; Chang, Lehua; Chaung, Danny; Hoang, Myle; Jiang, Jinlong; Lin, Peter; Sailer, Andreas W.; Young, Jonathan R. Merck & Co., Inc., USA PCT Int. Appl., 178 pp. CODEN: PIXXD2 Patent English FAN.CNT 1 PATENT NO. KIND DATE APPLICATION NO. WO 2002-US37556 WO 2003045313 **A**2 20030605 20021122 WO 2003045313 A3 20030904 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG EP 1450801 A2 EP 2002-789837 20040901 20021122 AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK PRAI US 2001-333581P P 20011127 WO 2002-US37556 W 20021122 MARPAT 139:36445 539852-73-8P, N-[2-(7-Methyl-2,7-diazaspiro[4.4]non-2-yl)quinolin-6-yl]-3-[4-(trifluoromethyl)phenyl]propanamide 539852-75-0P, N-[2-(7-Benzyl-2,7-diazaspiro[4.4]non-2-yl)quinolin-6-yl]-3-[4-(trifluoromethyl)phenyl]propanamide 539852-77-2P, N-[2-(2,7-Diazaspiro[4.4]non-2-y1)quinolin-6-y1]-3-[4-(trifluoromethyl)phenyl]propanamide RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU

(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES

(Uses)

(claimed compound; preparation of 2-aminoquinolines as melanin concentrating hormone

receptor (MCH-1R) antagonists)

RN 539852-73-8 CAPLUS

CN Benzenepropanamide, N-[2-(7-methyl-2,7-diazaspiro[4.4]non-2-yl)-6-quinolinyl]-4-(trifluoromethyl)- (9CI) (CA INDEX NAME)

RN 539852-75-0 CAPLUS

CN Benzenepropanamide, N-[2-[7-(phenylmethyl)-2,7-diazaspiro[4.4]non-2-yl]-6-quinolinyl]-4-(trifluoromethyl)- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ & \\ & & \\ & & \\ & & \\ & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ &$$

RN 539852-77-2 CAPLUS

CN Benzenepropanamide, N-[2-(2,7-diazaspiro[4.4]non-2-yl)-6-quinolinyl]-4-(trifluoromethyl)- (9CI) (CA INDEX NAME)

L8 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN

AB The errors were not reflected in the abstract or the index entries.

AN 1995:2483 CAPLUS

DN 123:164953

TI Anti-mycobacterium avium activity of quinolones: in vitro activities. [Erratum to document cited in CA120:27300f]

AU Klopman, Gilles; Wang, Shaomeng; Jacobs, Michael R.; Bajaksouzian,

Saralee; Edmonds, Kay; Ellner, Jerrold J.

CS Chem. Dep., Case West. Reserve Univ., Cleveland, OH, 44106, USA

SO Antimicrobial Agents and Chemotherapy (1993), 37(12), 2766

CODEN: AMACCQ; ISSN: 0066-4804

DT Journal

LA English

IT 91188-27-1

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(Mycobacterium avium sensitivity to (Erratum))

RN 91188-27-1 CAPLUS

CN 1,8-Naphthyridine-3-carboxylic acid, 1-ethyl-6-fluoro-1,4-dihydro-7-(7-methyl-2,7-diazaspiro[4.4]non-2-yl)-4-oxo- (9CI) (CA INDEX NAME)

L8 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN

The MICs of 88 quinolones against 14 selected reference and clin. strains of ABMycobacterium avium-M. intracellulare complex were determined Agents tested included ciprofloxacin, sparfloxacin (PD 131501), and 86 other exptl. quinolones. Test strains were selected to represent various susceptibilities to ciprofloxacin and other drug resistance profiles. MICs were determined by the microdilution method in 7HSF broth, with incubation for 14 days at 35°. The results showed 25 of the quinolones to be active against the strains, with MICs for 90% of the strains (MIC90s) of 2 to 32 µg/mL. Ten of these compds. had activities equivalent to or greater than that of ciprofloxacin. The most active compound was PD 125354, with an MIC50 of 0.5 μg/mL and an MIC90 of 2 μg/mL; comparable values for ciprofloxacin were 4 and 8 µg/mL, resp. The next most active compds., with MIC90s of 4  $\mu$ g/mL, were sparfloxacin (PD 131501), PD 123982, PD 135144, and PD 119421. MIC90s of PD 131575, PD 126889, PD 122642, PD 139586, and PD 143289 were 8  $\mu g/mL$ . Further evaluation of the most active agents is warranted, as is assessment of structure-activity relationships of active and inactive agents to elucidate the active portions of the compds. and to lead to the development of compds. with enhanced activity.

AN 1994:27300 CAPLUS

DN 120:27300

TI Anti-mycobacterium avium activity of quinolones: in vitro activities

AU Klopman, Gilles; Wang, Shaomeng; Jacobs, Michael R.; Bajaksouzian, Saralee; Edmonds, Kay; Ellner, Jerrold J.

CS Chem. Dep., Case West. Reserve Univ., Cleveland, OH, 44106, USA

SO Antimicrobial Agents and Chemotherapy (1993), 37(9), 1799-806 CODEN: AMACCQ; ISSN: 0066-4804

DT Journal

LA English

IT 91188-27-1

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(Mycobacterium avium sensitivity to)

RN 91188-27-1 CAPLUS

CN 1,8-Naphthyridine-3-carboxylic acid, 1-ethyl-6-fluoro-1,4-dihydro-7-(7-methyl-2,7-diazaspiro[4.4]non-2-yl)-4-oxo- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & \text{Et} & \text{Me} \\ \hline \\ N & N & N \\ \hline \\ N & N \\ \\$$

L8 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN GI

- Fluoroquinolone antibacterials having the 7-position (10-position of pyridobenzoxazines) substituted with 2,7-diazaspiro[4.4]nonane, 1,7-diazaspiro[4.4]nonane, or 2,8-diazaspiro[5.5]undecane (e.g. I (X = CF, CH, N) were prepared and their biol. activities were compared with piperazine and pyrrolidine substituted analogs. Most exhibited potent Gram-pos. and Gram-neg. activity, especially when side chain was N-alkylated. Thus, the quinolinecarboxylic acid II was treated with 2-methyl-2,7-diazaspiro[4.4]nonane to give I (X = CH).
- AN 1990:497432 CAPLUS
- DN 113:97432
- Quinolone antibacterial agents substituted at the 7-position with spiroamines. Synthesis and structure-activity relationships
- AU Culbertson, Townley P.; Sanchez, Joseph P.; Gambino, Laura; Sesnie, Josephine A.
- CS Parke-Davis Pharm. Res. Div., Warner-Lambert Co., Ann Arbor, MI, 48105, USA
- SO Journal of Medicinal Chemistry (1990), 33(8), 2270-5 CODEN: JMCMAR; ISSN: 0022-2623
- DT Journal
- LA English
- OS CASREACT 113:97432
- 91188-27-1P 91188-34-0P 91196-83-7P
  RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological

study); PREP (Preparation)

(preparation and bactericidal activity of)

RN 91188-27-1 CAPLUS

CN 1,8-Naphthyridine-3-carboxylic acid, 1-ethyl-6-fluoro-1,4-dihydro-7-(7-methyl-2,7-diazaspiro[4.4]non-2-yl)-4-oxo- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & \text{Et} & \text{Me} \\ \hline \\ N & N & N \\ \hline \\ N & N \\ \hline \\ N & N \\ \end{array}$$

RN 91188-34-0 CAPLUS

CN 1,8-Naphthyridine-3-carboxylic acid, 1-ethyl-7-(7-ethyl-2,7-diazaspiro[4.4]non-2-yl)-6-fluoro-1,4-dihydro-4-oxo-(9CI) (CA INDEX NAME)

RN 91196-83-7 CAPLUS

CN 1,8-Naphthyridine-3-carboxylic acid, 7-(2,7-diazaspiro[4.4]non-2-yl)-1-ethyl-6-fluoro-1,4-dihydro-4-oxo-, monohydrochloride (9CI) (CA INDEX NAME)

● HCl

L8 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN GI

$$X$$
 $X$ 
 $CO_2R^2$ 
 $R^3$ 
 $R^3$ 
 $R^1$ 
 $I$ 
 $CO_2R^2$ 
 $R^3$ 
 $R^3$ 

The title compds. [I; A = N, CR9; R1 = Me, Et, cyclopropyl, etc.; R2 = H, alkyl, (5-methyl-2-oxo-1,3-dioxol-4-yl)methyl; R3 = Me, 13 N-attached heterocyclyl; R9 = H, halo, Me, cyano, NO2; R1R9 = OCH2CHMe, SCH2CHMe, CH2CH2CHMe] were prepared C6F5COCH2CO2Et (preparation given) was refluxed 2 h with HC(OEt)3 in Ac2O to give C6F5COC(CO2Et):CHOEt which was treated overnight with cyclopropylamine in EtOH to give C6F5COC(CO2Et):CHNHR (R = cyclopropyl). The latter was refluxed 3 h in DMF containing NaF to give, after saponification, quinolonecarboxylate II (R3 = Y = F) which was refluxed

3 h
with 1-methylpiperazine in MeCN/DMF containing Dabco to give II (R3 =
4-methyl-1-piperazinyl, Y = F) (III). Tablets were prepared each containing

583.0, cellulose 55.0, starch 72.0, polyvinylpyrrolidone 30.0, SiO2 5.0,
and Mg stearate 5.0 mg with a coating comprising
 (hydroxypropyl)methylcellulose 6.0, Macrogol 40,000 2.0, and TiO2 2.0 mg.
II (R3 = 3-methyl-1-piperazinyl, Y = NH2) had a min. inhibitory concentration
of

0.5 (units not given) against Escherichia coli 455/7.

AN 1989:114697 CAPLUS

DN 110:114697

TI Preparation of 5-substituted quinolone- and naphthyridonecarboxylic acids as antibacterial agents

IN Petersen, Uwe; Grohe, Klaus; Schriewer, Michael; Schenke, Thomas; Haller, Ingo; Metzger, Karl; Endermann, Rainer; Zeiler, Hans Joachim

PA Bayer A.-G., Fed. Rep. Ger.

SO Ger. Offen., 32 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

PAN.	CMI														
	PATEN'	T NO.			KINI	)	DATE		A)	PΡ	LICAT	I NOI	. OI	DATE	
			- <b></b>			-				<del>-</del> -				 	
PI	DE 37	11193			A1		1988	1013	D	E	1987-3	3711	193	19870	0402
	NO 88	01121			Α		1988	1003	No	0	1988-1	1121		19880	314
	EP 28	4935			A1		1988	1005	E	P	1988-1	10445	52	19880	321
	R	: AT,	BE,	CH,	DE,	ES,	, FR,	GB,	GR,	ΙT	LI,	NL,	SE		
	AU 883	13811			A1		1988	1006	Α	U	1988-1	13813	l	19880	328
	DD 274	4029			<b>A</b> 5		1989	1206	DI	D	1988-3	31415	59	19880	329
	DK 88	01802			A		1988	1003	D	K	1988-1	1802		19880	330
	FI 88	01501			Α		1988	1003	F	Ι	1988-1	L501		19880	330
	CN 883	101741			Α		1988	1116	Cl	N	1988-1	10174	11	19880	331
	ZA 88	02318			$\mathbf{A}$		1988	1228	$\mathbf{Z}^{2}$	Α	1988-2	2318		19880	331

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JP 63258855 **A2** 19881026 JP 1988-78298 19880401 HU 47098 A2 19890130 HU 1988-1619 19880401 HU 201050 В

19900928

PRAI DE 1987-3711193 19870402

OS CASREACT 110:114697; MARPAT 110:114697

119354-28-8P IT

> RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of, as antibacterial agent)

119354-28-8 CAPLUS RN

1,8-Naphthyridine-3-carboxylic acid, 5-amino-1-ethyl-6-fluoro-1,4-dihydro-CN 7-(7-methyl-2,7-diazaspiro[4.4]non-2-yl)-4-oxo- (9CI) (CA INDEX NAME)

L8ANSWER 7 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN GI

The title compds. (I; X = FC, N; R1 = H, alkyl, cation; R2 = amino, ABheterocyclyl) were prepared Thus, 2,3,4,5-F4C6HCO2H was converted to its acid chloride and condensed with EtO2CCH2CO2H to give 2,3,4,5-F4C6HCOCH2CO2H. This was cyclocondensed with (EtO)3CH and cyclopropylamine to give I (X = FC, R1 = H, R2 = F). The latter was treated with 3-pyrrolidinemethanamine to give 7-[3-(aminomethyl)-1pyrrolidinyl]-3-quinolinecarboxylic acid derivative II. II had a min. inhibitory concentration of <0.1  $\mu g/mL$  against, e.g., Escherichia coli Vogel. AN1986:34013 CAPLUS

DN104:34013

7-Substituted-1-cyclopropyl-6,8-difluoro-1,4-dihydro-4-oxo-3-TIquinolinecarboxylic acids; 7-substituted-1-cyclopropyl-1,4-dihydro-6fluoro-4-oxo-1,8-naphthyridine-3-carboxylic acids and their derivatives

Culbertson, Townley P.; Mich, Thomas F.; Domagala, John M.; Nichols, INJeffrey B.

PAWarner-Lambert Co. , USA SO Eur. Pat. Appl., 137 pp. CODEN: EPXXDW DTPatent English LAFAN.CNT 3 APPLICATION NO. PATENT NO. KIND DATE DATE \_ \_ \_ \_ EP 153163 EP 1985-301009 PI**A2** 19850828 19850215 EP 153163 **A3** 19860129 EP 153163 19891227 B1 R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE 19870512 US 1985-692820 US 4665079 Α 19850123 ZA 8500854 Α 19860924 ZA 1985-854 19850204 19850204 CA 1985-473502 .CA 1289956 A119911001 IL 74286 A1 IL 1985-74286 19880731 19850208 19850822 AU 1985-38618 AU 8538618 A1 19850211 AU 568004 B2 19871210 DK 8500687 DK 1985-687 19850214 Α 19850818 DK 161889 В 19910826 DK 161889 C 19920203 FI 8500631 Α 19850818 FI 1985-631 19850215 FI 83312 В 19910315 FI 83312 C 19910625 NO 8500614 Α 19850819 NO 1985-614 19850215 NO 161370  $\mathbf{B}$ 19890502 NO 161370 C 19890809 JP 60214773 JP 1985-26669 **A2** 19851028 19850215 JP 07055945 **B**4 19950614 HU 37149 0 19851128 HU 1985-580 19850215 ES 540441 A119870501 ES 1985-540441 19850215 AT 1985-301009 AT 48997  $\mathbf{E}$ 19900115 19850215 JP 07173160 **A2** 19950711 JP 1994-278595 19941019 PRAI US 1984-581157 19840217 US 1985-692820 19850123 US 1982-416406 19820909 US 1983-522275 19830812 IL 1983-69601 19830830 EP 1985-301009 19850215 OS CASREACT 104:34013 91188-24-8P 91188-27-1P 91188-34-0P IT99734-94-8P RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as bactericide) 91188-24-8 CAPLUS RN1,8-Naphthyridine-3-carboxylic acid, 7-(2,7-diazaspiro[4.4]non-2-yl)-1-CN

ethyl-6-fluoro-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)

RN 91188-27-1 CAPLUS

CN 1,8-Naphthyridine-3-carboxylic acid, 1-ethyl-6-fluoro-1,4-dihydro-7-(7-methyl-2,7-diazaspiro[4.4]non-2-yl)-4-oxo- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & \text{Et} & \text{Me} \\ \hline \\ \text{N} & \text{N} & \text{N} \\ \hline \\ \text{HO}_2\text{C} & \text{F} \end{array}$$

RN 91188-34-0 CAPLUS

CN 1,8-Naphthyridine-3-carboxylic acid, 1-ethyl-7-(7-ethyl-2,7-diazaspiro[4.4]non-2-yl)-6-fluoro-1,4-dihydro-4-oxo-(9CI) (CA INDEX NAME)

RN 99734-94-8 CAPLUS

CN 1,8-Naphthyridine-3-carboxylic acid, 7-(2,7-diazaspiro[4.4]non-2-yl)-1-ethyl-6-fluoro-1,4-dihydro-4-oxo-, hydrochloride (9CI) (CA INDEX NAME)

•x HCl

L8 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN GI

$$\begin{array}{c|c}
R & CO_2R^3 \\
\hline
R^1 & Z & N_{R^2} & I
\end{array}$$

AB Title compds. I and II [R = H, halo; R1 = (un)substituted N heterocycle; R2 = alkyl, haloalkyl, hydroxyalkyl, cycloalkyl, vinyl; R3 = H, alkyl, cation; R4, R5 = H, alkyl; Z = H, (un)substituted CH] were prepared Thus, II (R = R1 = F, R3 = R4 = H, R5 = Me) was treated with diazaspirononane III.2HCl, prepared from Et 3-(ethoxycarbonyl)-5-oxo-3-pyrrolidineacetate, to give II (R = 7-methyl-2,7-diazaspiro[4,4]non-2-yl), which had a min. inhibitory concentration against Staphylococcus aureus UC-76 of 0.006 μg/mL.

AN 1984:472740 CAPLUS

DN 101:72740

TI Antibacterial agents

IN Culbertson, Townley P.; Mich, Thomas F.; Domagala, John M.; Nichols, Jeffrey B.

PA Warner-Lambert Co. , USA

SO Eur. Pat. Appl., 125 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 106489 EP 106489 EP 106489	A2 A3 B1	19840425 19850424 19880727	EP 1983-305148	19830906
	R: AT, BE, CH			I, LU, NL, SE	
	ZA 8306357	A	19840425	ZA 1983-6357	19830826
	IL 69601	A1	19870831	IL 1983-69601	19830830
	IL 80848	A1	19880930	IL 1983-80848	19830830
	IL 80849	A1	19881031	IL 1983-80849	19830830
	FI 8303151	A	19840310	FI 1983-3151	19830905
	FI 83513	В	19910415		
:	FI 83513	С	19910725		
	AU 8318698	A1	19840315	AU 1983-18698	19830905
	AU 562286	B2	19870604		
	AT 35987	$\mathbf{E}$	19880815	AT 1983-305148	19830906
	CS 246065	B2	19861016	CS 1983-6498	19830907

DK 171098 B1 19960603 NO 83032306 A 19840312 NO 1983-3206 19830908 NO 164418 B 19900625 NO 164418 C 19901003 JP 59067269 A2 19840416 JP 1983-164271 19830908 JP 07042284 B4 19950510 HU 31718 O 19840528 HU 1983-3140 19830908 HU 196986 B 19890228 DD 216010 A5 19841128 DD 1983-254624 19830908 ES 525493 A1 19850116 ES 1983-525493 19830908 ES 529934 A1 19850601 ES 1984-529934 19840222 ES 529936 A1 19850616 ES 1984-529936 19840222 ES 529937 A1 19850616 ES 1984-529936 19840222 ES 529933 A1 19850701 ES 1984-529937 19840222 ES 529933 A1 19850701 ES 1984-529937 19840222 ES 529933 A1 19850701 ES 1984-529933 19840222 ES 529933 A1 19850701 ES 1984-529936 19840222 ES 529936 A3 19870630 SU 1984-3732809 19840427 SU 1314954 A3 19870630 SU 1984-3732809 19840427 SU 1314954 A3 19870630 SU 1984-3732809 19840222 SU 321376 A3 19870630 SU 1984-3736502 19840503 CS 246084 B2 19861016 CS 1984-4631 19840618 CS 247180 B2 19861016 CS 1984-4631 19840618 JP 01146880 A2 1996018 JP 1988-282640 19981110 JP 04210961 A2 19920803 JP 1991-53587 19910227 JP 07080770 B4 19950830 DK 9400700 A 19940616 DK 1994-7009 19940616 DK 170471 B1 19950911 DK 1994-700 19940616 DK 170471 B1 19950911 DK 1994-700 19940616 DK 1983-522275 19830812 FP 1983-305148 19830906 CS 1983-6498 19830906 CS 1983-6498 19830907 JP 1983-164271 19930908		DK	8304074	A	19840310	DK	1983-4074	19830908
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DD 216010 A5 19841128 DD 1983-254624 19830908 ES 525493 A1 1985016 ES 1983-525493 19830908 SU 1360584 A3 19871215 SU 1983-3659624 19831103 ES 529934 A1 19850601 ES 1984-529934 19840222 ES 529936 A1 19850616 ES 1984-529936 19840222 ES 529937 A1 19850616 ES 1984-529937 19840222 ES 529937 A1 19850701 ES 1984-529937 19840222 ES 529933 A1 19850701 ES 1984-529933 19840222 ES 529933 A1 19850701 ES 1984-529933 19840222 SU 1321376 A3 19870630 SU 1984-3732809 19840222 SU 1314954 A3 19870630 SU 1984-3732809 19840227 SU 1314954 A3 19870630 SU 1984-3732809 19840503 CS 246083 B2 19861016 CS 1984-4630 19840518 CS 247180 B2 19861016 CS 1984-4631 19840618 CS 247180 B2 19861016 CS 1984-4631 19840618 JP 01146880 A2 19890608 JP 1988-282640 19881110 JP 04210961 A2 19920803 JP 1991-53587 19910227 JP 06062561 B4 19940817 JP 070707111 A2 19950814 JP 1994-32109 19940302 JP 07080770 B4 19950830 DK 9400700 A 19940616 DK 1994-70094 19940616 JP 08311061 A2 19950810 DK 170471 B1 19950810 DK 1904710 B1 19950810 JP 2704984 B2 19980126  PRAI US 1982-416406 19820909 US 1983-522275 19830812 IL 1983-69601 19830800 EP 1983-305148 19830906 CS 1983-6498 19830907 JP 1983-164271 19830908  IT 91188-24-8P 91188-27-1P 91188-34-0P 91196-83-7P		HU	31718	0	19840528	HU	1983-3140	19830908
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ES 529936 A1 19850616 ES 1984-529936 19840222 ES 529937 A1 19850616 ES 1984-529937 19840222 ES 529935 A1 19850701 ES 1984-529935 19840222 ES 529933 A1 19850701 ES 1984-529933 19840222 SU 1321376 A3 19870630 SU 1984-3732809 19840222 SU 1314954 A3 19870530 SU 1984-3732809 19840503 CS 246083 B2 19861016 CS 1984-4630 19840618 CS 246084 B2 19861016 CS 1984-4631 19840618 CS 247180 B2 19861218 CS 1984-4632 19840618 JP 01146880 A2 19890608 JP 1988-282640 19881110 JP 04210961 A2 19920803 JP 1991-53587 19910227 JP 06062561 B4 19940817 JP 07070111 A2 19950314 JP 1994-32109 19940302 JP 07080770 B4 19950830 DK 9400700 A 19940616 DK 1994-70094 19940616 DK 170471 B1 19950911 DK 1994-700 19940616 JP 08311061 A2 19961126 JP 1996-134697 19960529 JP 2704984 B2 19980126 PRAI US 1982-416406 19820909 US 1983-522275 19830812 IL 1983-69601 19830830 EP 1983-305148 19830906 CS 1983-6498 19830907 JP 1983-164271 19830908  IT 91188-24-8P 91188-27-1P 91188-34-0P 91196-83-7P		SU	1360584	A3	19871215	SU	1983-3659624	19831103
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JP 01146880       A2 19890608       JP 1988-282640       19881110         JP 04210961       A2 19920803       JP 1991-53587       19910227         JP 06062561       B4 19940817       Francounty       19940302         JP 07070111       A2 19950314       JP 1994-32109       19940302         JP 07080770       B4 19950830       Francounty       19940616         DK 9400700       A 19940616       DK 1994-70094       19940616         DK 170471       B1 19950911       DK 1994-700       19940616         JP 08311061       A2 19961126       JP 1996-134697       19960529         JP 2704984       B2 19980126       JP 1983-69601       19820909         US 1983-522275       19830812       19830830         EP 1983-305148       19830906       19830906         CS 1983-6498       19830907       19830908         JP 1983-164271       19830908       19830908         IT       91188-24-8P 91188-27-1P 91188-34-0P       91196-83-7P		CS	246084	B2	19861016	CS	1984-4631	19840618
JP 04210961 A2 19920803 JP 1991-53587 19910227  JP 06062561 B4 19940817  JP 07070111 A2 19950314 JP 1994-32109 19940302  JP 07080770 B4 19950830  DK 9400700 A 19940616 DK 1994-70094 19940616  DK 170471 B1 19950911 DK 1994-700 19940616  JP 08311061 A2 19961126 JP 1996-134697 19960529  JP 2704984 B2 19980126  PRAI US 1982-416406 19820909  US 1983-522275 19830812  IL 1983-69601 19830830  EP 1983-305148 19830906  CS 1983-6498 19830907  JP 1983-164271 19830908  IT 91188-24-8P 91188-27-1P 91188-34-0P 91196-83-7P		CS	247180	B2	19861218	CS	1984-4632	19840618
JP 06062561 B4 19940817  JP 07070111 A2 19950314 JP 1994-32109 19940302  JP 07080770 B4 19950830  DK 9400700 A 19940616 DK 1994-70094 19940616  DK 170471 B1 19950911 DK 1994-700 19940616  JP 08311061 A2 19961126 JP 1996-134697 19960529  JP 2704984 B2 19980126  PRAI US 1982-416406 19820909  US 1983-522275 19830812  IL 1983-69601 19830830  EP 1983-305148 19830906  CS 1983-6498 19830907  JP 1983-164271 19830908  IT 91188-24-8P 91188-27-1P 91188-34-0P  91196-83-7P		JP	01146880	A2	19890608	JP	1988-282640	19881110
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DK 170471 B1 19950911 DK 1994-700 19940616  JP 08311061 A2 19961126 JP 1996-134697 19960529  JP 2704984 B2 19980126  PRAI US 1982-416406 19820909  US 1983-522275 19830812  IL 1983-69601 19830830  EP 1983-305148 19830906  CS 1983-6498 19830907  JP 1983-164271 19830908  IT 91188-24-8P 91188-27-1P 91188-34-0P  91196-83-7P		JP	07080770	B4	19950830			
JP 08311061 A2 19961126 JP 1996-134697 19960529  JP 2704984 B2 19980126  PRAI US 1982-416406 19820909 US 1983-522275 19830812 IL 1983-69601 19830830 EP 1983-305148 19830906 CS 1983-6498 19830907 JP 1983-164271 19830908  IT 91188-24-8P 91188-27-1P 91188-34-0P 91196-83-7P		DK	9400700	Α	19940616	DK	1994-70094	19940616
JP 2704984 B2 19980126  PRAI US 1982-416406 19820909  US 1983-522275 19830812  IL 1983-69601 19830830  EP 1983-305148 19830906  CS 1983-6498 19830907  JP 1983-164271 19830908  IT 91188-24-8P 91188-27-1P 91188-34-0P  91196-83-7P		DK	170471	B1	19950911	DK	1994-700	19940616
PRAI US 1982-416406 19820909 US 1983-522275 19830812 IL 1983-69601 19830830 EP 1983-305148 19830906 CS 1983-6498 19830907 JP 1983-164271 19830908 IT 91188-24-8P 91188-27-1P 91188-34-0P 91196-83-7P		JP	08311061	A2	19961126	JP	1996-134697	19960529
US 1983-522275 19830812 IL 1983-69601 19830830 EP 1983-305148 19830906 CS 1983-6498 19830907 JP 1983-164271 19830908 IT 91188-24-8P 91188-27-1P 91188-34-0P 91196-83-7P		JP	2704984	B2	19980126			
IL 1983-69601 19830830 EP 1983-305148 19830906 CS 1983-6498 19830907 JP 1983-164271 19830908 IT 91188-24-8P 91188-27-1P 91188-34-0P 91196-83-7P	PRAI	US	1982-416406		19820909			
EP 1983-305148 19830906 CS 1983-6498 19830907 JP 1983-164271 19830908 IT 91188-24-8P 91188-27-1P 91188-34-0P 91196-83-7P		US	1983-522275		19830812			
CS 1983-6498 19830907 JP 1983-164271 19830908 IT 91188-24-8P 91188-27-1P 91188-34-0P 91196-83-7P		IL	1983-69601		19830830			
JP 1983-164271 19830908 IT 91188-24-8P 91188-27-1P 91188-34-0P 91196-83-7P		ΕP	1983-305148		19830906			
IT 91188-24-8P 91188-27-1P 91188-34-0P 91196-83-7P		CS	1983-6498		19830907			
91196-83-7P		JΡ	1983-164271		19830908			
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RL: BAC (Biological activity or effector, except adverse); BSU (Biological activity)		911	L96-83-7P				•	
		RL:	BAC (Biological a	activit	cy or effecto	or,	except adverse); BSI	U (Biologi

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation and bactericidal activity of)

RN 91188-24-8 CAPLUS

CN 1,8-Naphthyridine-3-carboxylic acid, 7-(2,7-diazaspiro[4.4]non-2-yl)-1-ethyl-6-fluoro-1,4-dihydro-4-oxo-(9CI) (CA INDEX NAME)

RN 91188-27-1 CAPLUS

CN 1,8-Naphthyridine-3-carboxylic acid, 1-ethyl-6-fluoro-1,4-dihydro-7-(7-methyl-2,7-diazaspiro[4.4]non-2-yl)-4-oxo- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & \text{Et} & \text{Me} \\ \hline & N & N & N \\ \hline &$$

RN 91188-34-0 CAPLUS

CN 1,8-Naphthyridine-3-carboxylic acid, 1-ethyl-7-(7-ethyl-2,7-diazaspiro[4.4]non-2-yl)-6-fluoro-1,4-dihydro-4-oxo-(9CI) (CA INDEX NAME)

RN 91196-83-7 CAPLUS

CN 1,8-Naphthyridine-3-carboxylic acid, 7-(2,7-diazaspiro[4.4]non-2-yl)-1-ethyl-6-fluoro-1,4-dihydro-4-oxo-, monohydrochloride (9CI) (CA INDEX NAME)

HCl

=> file registry
COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION

FULL ESTIMATED COST 77.48 394.17

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE TOTAL
ENTRY SESSION
-11.20 -11.90

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STRUCTURE FILE UPDATES: 21 SEP 2004 HIGHEST RN 749178-43-6 DICTIONARY FILE UPDATES: 21 SEP 2004 HIGHEST RN 749178-43-6

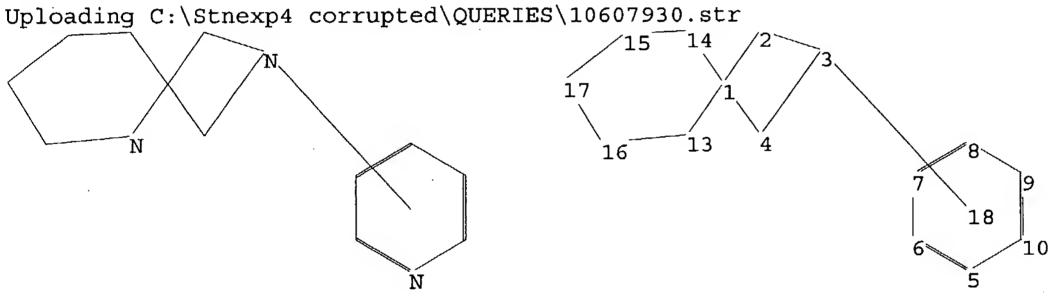
TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

=>



ring nodes :

1 2 3 4 5 6 7 8 9 10 13 14 15 16 17

ring bonds :

1-4 1-2 1-13 1-14 2-3 3-4 5-6 5-10 6-7 7-8 8-9 9-10 13-16 14-15 15-17 16-17

exact/norm bonds :

1-4 1-2 1-13 1-14 2-3 3-4 13-16 14-15 15-17 16-17

normalized bonds :

5-6 5-10 6-7 7-8 8-9 9-10

G1:C,N

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS

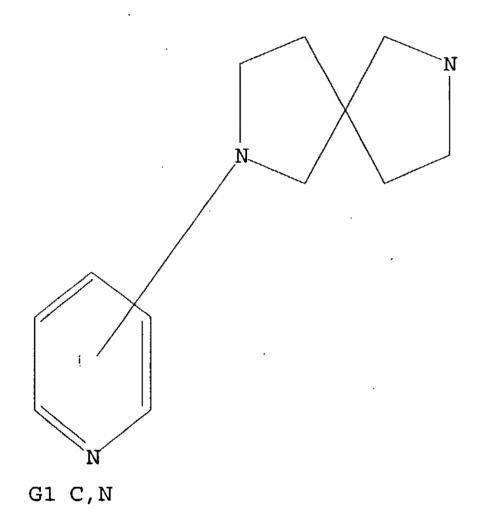
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=> d 19

L9 HAS NO ANSWERS

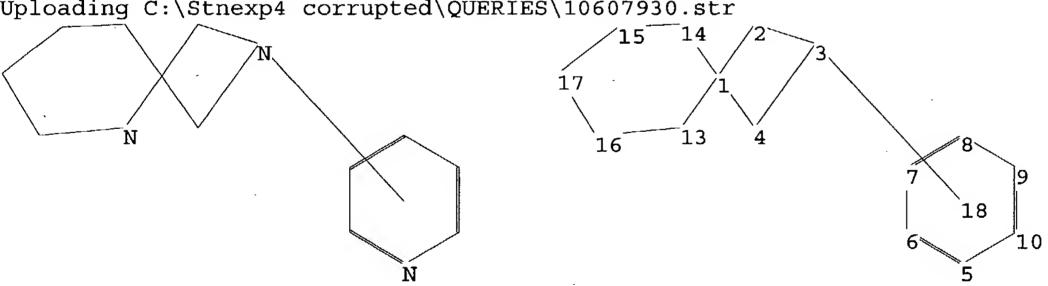
L9

STR



Structure attributes must be viewed using STN Express query preparation.

Uploading C:\Stnexp4 corrupted\QUERIES\10607930.str



ring nodes :

1 2 3 4 5 6 7 8 9 10 13 14 15 16 17

ring bonds :

1-4 1-2 1-13 1-14 2-3 3-4 5-6 5-10 6-7 7-8 8-9 9-10 13-16 14-15 15-17 16-17

exact/norm bonds :

1-4 1-2 1-13 1-14 2-3 3-4 13-16 14-15 15-17 16-17

normalized bonds :

5-6 5-10 6-7 7-8 8-9 9-10

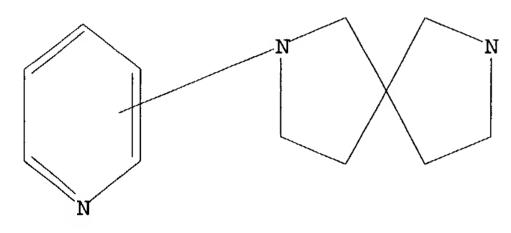
G1:C,N

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS

L10STRUCTURE UPLOADED

=> d 110L10 HAS NO ANSWERS L10STR



G1 C,N

Structure attributes must be viewed using STN Express query preparation.

=> s 110

SAMPLE SEARCH INITIATED 15:20:38 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED -44 TO ITERATE

100.0% PROCESSED

44 ITERATIONS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 483 TO

1277

PROJECTED ANSWERS:

0 TO 0

L11 0 SEA SSS SAM L10

=> s l10 ful

FULL SEARCH INITIATED 15:20:44 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 881 TO ITERATE

100.0% PROCESSED 881 ITERATIONS

9 ANSWERS

0 ANSWERS

SEARCH TIME: 00.00.01

L12 9 SEA SSS FUL L10

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION

10607930

FULL ESTIMATED COST

158.36 552.53

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) S:

SINCE FILE ENTRY

TOTAL SESSION

CA SUBSCRIBER PRICE

0.00

-11.90

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FILE COVERS 1907 - 22 Sep 2004 VOL 141 ISS 13 FILE LAST UPDATED: 21 Sep 2004 (20040921/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 112

L13

7 L12

=> s 113 not 18

L14

0 L13 NOT L8

=> d abs bib hitstr l13 1-7

L13 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN GI

$$R^4$$
 $R^3$ 
 $R^5$ 
 $NR^1R^2$ 

Title compds. [I; R1, R2 = H, (substituted) alkyl, alkenyl, alkynyl, cycloalkylalkyl, aralkyl, etc.; R1R2N = 4-11 membered (bridged) (substituted) heterocyclyl; R3, R4 = H, halo, (substituted) alkyl, alkenyl, alkynyl, perfluoroalkyl, cycloalkyl, cycloalkylalkyl, aryl, aralkyl, heteroaralkyl, OR7, N(R7)2, cyano, etc.; R3R4 = atoms to form 5-7 membered (substituted) ring; R5 = H, halo, alkyl, perfluoroalkyl, OR7, N(R7)2; R6 = (CH2)nR7, (CH2)nCN, (CH2)nCO2R7, (CH2)nOR7, (CH2)nN(R7)2,

AN

DN

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etc.; R7 = H, alkyl, aryl, heteroaryl, cycloalkyl, aralkyl, aralkenyl,
     cycloalkylalkenyl, etc.; n = 0-5], were prepared for the treatment or
     prevention of obesity, eating disorders, osteoarthritis, cancer, AIDS
     wasting, cachexia, frailty, mental disorders, stress, cognitive disorders,
     sexual function, reproductive function, kidney function, locomotor
     disorders, attention deficit disorder (ADD), substance abuse disorders and
     dyskinesias, Huntington's disease, epilepsy, memory function, and spinal
     muscular atrophy. Thus, 2-piperidin-1-ylquinolin-6-amine and
     (2E)-3-(4-chlorophenyl)prop-2-enoyl chloride were stirred 3 h in HOAc to
     give (2E)-3-(4-chlorophenyl)-N-(2-piperidin-1-ylquinolin-6-yl)prop-2-
     enamide hydrochloride. I bound to MCH-1R receptors with IC50 = 0.1-10000
     nM.
     2003:434303 CAPLUS
     139:36445
     Preparation of 2-aminoquinolines as melanin concentrating hormone receptor
     (MCH-1R) antagonists.
     Devita, Robert J.; Chang, Lehua; Chaung, Danny; Hoang, Myle; Jiang,
     Jinlong; Lin, Peter; Sailer, Andreas W.; Young, Jonathan R.
     Merck & Co., Inc., USA
     PCT Int. Appl., 178 pp.
     CODEN: PIXXD2
     Patent
     English
FAN.CNT 1
     PATENT NO.
                         KIND
                                            APPLICATION NO.
                                DATE
                                                                    DATE
                          A2
     WO 2003045313
                                20030605
                                            WO 2002-US37556
                                                                    20021122
     WO 2003045313
                          A3
                                20030904
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             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS,
             LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL,
             PT, RO, RU, SC, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
             UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD,
             RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,
             CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
             PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,
             NE, SN, TD,
     EP 1450801
                          A2 .
                                20040901
                                            EP 2002-789837
                                                                   20021122
         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK
PRAI US 2001-333581P
                          P
                                20011127
    WO 2002-US37556
                                20021122
                          W
     MARPAT 139:36445
     539852-73-8P, N-[2-(7-Methyl-2,7-diazaspiro[4.4]non-2-yl)quinolin-
     6-yl]-3-[4-(trifluoromethyl)phenyl]propanamide 539852-75-0P,
    N-[2-(7-Benzyl-2,7-diazaspiro[4.4]non-2-yl)quinolin-6-yl]-3-[4-
     (trifluoromethyl)phenyl]propanamide 539852-77-2P,
    N-[2-(2,7-Diazaspiro[4.4]non-2-yl)quinolin-6-yl]-3-[4-
     (trifluoromethyl)phenyl]propanamide
    RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
     (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
        (claimed compound; preparation of 2-aminoquinolines as melanin
concentrating hormone
        receptor (MCH-1R) antagonists)
    539852-73-8 CAPLUS
    Benzenepropanamide, N-[2-(7-methyl-2,7-diazaspiro[4.4]non-2-yl)-6-
```

RN

CN

quinolinyl]-4-(trifluoromethyl)- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & \\ & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & &$$

RN 539852-75-0 CAPLUS

CN Benzenepropanamide, N-[2-[7-(phenylmethyl)-2,7-diazaspiro[4.4]non-2-yl]-6-quinolinyl]-4-(trifluoromethyl)- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & \\ & & \\ NH-C-CH_2-CH_2 \end{array}$$

RN 539852-77-2 CAPLUS

CN Benzenepropanamide, N-[2-(2,7-diazaspiro[4.4]non-2-yl)-6-quinolinyl]-4-(trifluoromethyl)- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & \\ & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & &$$

L13 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN

AB The errors were not reflected in the abstract or the index entries.

AN 1995:2483 CAPLUS

DN 123:164953

TI Anti-mycobacterium avium activity of quinolones: in vitro activities. [Erratum to document cited in CA120:27300f]

AU Klopman, Gilles; Wang, Shaomeng; Jacobs, Michael R.; Bajaksouzian, Saralee; Edmonds, Kay; Ellner, Jerrold J.

CS Chem. Dep., Case West. Reserve Univ., Cleveland, OH, 44106, USA

SO Antimicrobial Agents and Chemotherapy (1993), 37(12), 2766 CODEN: AMACCQ; ISSN: 0066-4804

DT Journal

LA English

#### IT 91188-27-1

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(Mycobacterium avium sensitivity to (Erratum))

RN 91188-27-1 CAPLUS

CN 1,8-Naphthyridine-3-carboxylic acid, 1-ethyl-6-fluoro-1,4-dihydro-7-(7-methyl-2,7-diazaspiro[4.4]non-2-yl)-4-oxo- (9CI) (CA INDEX NAME)

### L13 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN

The MICs of 88 quinolones against 14 selected reference and clin. strains of ABMycobacterium avium-M. intracellulare complex were determined Agents tested included ciprofloxacin, sparfloxacin (PD 131501), and 86 other exptl. quinolones. Test strains were selected to represent various susceptibilities to ciprofloxacin and other drug resistance profiles. MICs were determined by the microdilution method in 7HSF broth, with incubation for 14 days at 35°. The results showed 25 of the quinolones to be active against the strains, with MICs for 90% of the strains (MIC90s) of 2 to 32  $\mu$ g/mL. Ten of these compds. had activities equivalent to or greater than that of ciprofloxacin. The most active compound was PD 125354, with an MIC50 of 0.5  $\mu$ g/mL and an MIC90 of 2  $\mu$ g/mL; comparable values for ciprofloxacin were 4 and 8  $\mu$ g/mL, resp. The next most active compds., with MIC90s of 4  $\mu$ g/mL, were sparfloxacin (PD 131501), PD 123982, PD 135144, and PD 119421. MIC90s of PD 131575, PD 126889, PD 122642, PD 139586, and PD 143289 were 8  $\mu$ g/mL. Further evaluation of the most active agents is warranted, as is assessment of structure-activity relationships of active and inactive agents to elucidate the active portions of the compds. and to lead to the development of compds. with enhanced activity.

AN 1994:27300 CAPLUS

DN 120:27300

TI Anti-mycobacterium avium activity of quinolones: in vitro activities

AU Klopman, Gilles; Wang, Shaomeng; Jacobs, Michael R.; Bajaksouzian, Saralee; Edmonds, Kay; Ellner, Jerrold J.

CS Chem. Dep., Case West. Reserve Univ., Cleveland, OH, 44106, USA

SO Antimicrobial Agents and Chemotherapy (1993), 37(9), 1799-806 CODEN: AMACCQ; ISSN: 0066-4804

DT Journal

LA English

IT **91188-27-1** 

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(Mycobacterium avium sensitivity to)

RN 91188-27-1 CAPLUS

CN 1,8-Naphthyridine-3-carboxylic acid, 1-ethyl-6-fluoro-1,4-dihydro-7-(7-methyl-2,7-diazaspiro[4.4]non-2-yl)-4-oxo- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & \text{Et} & \text{Me} \\ \hline \\ N & N & N \\ \hline \\ HO_2C & F \\ \hline \\ O & \end{array}$$

L13 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN GI

Fluoroquinolone antibacterials having the 7-position (10-position of pyridobenzoxazines) substituted with 2,7-diazaspiro[4.4]nonane, 1,7-diazaspiro[4.4]nonane, or 2,8-diazaspiro[5.5]undecane (e.g. I (X = CF, CH, N) were prepared and their biol. activities were compared with piperazine and pyrrolidine substituted analogs. Most exhibited potent Gram-pos. and Gram-neg. activity, especially when side chain was N-alkylated. Thus, the quinolinecarboxylic acid II was treated with 2-methyl-2,7-diazaspiro[4.4]nonane to give I (X = CH).

AN 1990:497432 CAPLUS

DN 113:97432

TI Quinolone antibacterial agents substituted at the 7-position with spiroamines. Synthesis and structure-activity relationships

AU Culbertson, Townley P.; Sanchez, Joseph P.; Gambino, Laura; Sesnie, Josephine A.

CS Parke-Davis Pharm. Res. Div., Warner-Lambert Co., Ann Arbor, MI, 48105, USA

SO Journal of Medicinal Chemistry (1990), 33(8), 2270-5 CODEN: JMCMAR; ISSN: 0022-2623

DT Journal

LA English

OS CASREACT 113:97432

Parallel Pil88-27-1P 91188-34-0P 91196-83-7P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation and bactericidal activity of)

RN 91188-27-1 CAPLUS

CN 1,8-Naphthyridine-3-carboxylic acid, 1-ethyl-6-fluoro-1,4-dihydro-7-(7-methyl-2,7-diazaspiro[4.4]non-2-yl)-4-oxo- (9CI) (CA INDEX NAME)

RN 91188-34-0 CAPLUS

CN 1,8-Naphthyridine-3-carboxylic acid, 1-ethyl-7-(7-ethyl-2,7-diazaspiro[4.4]non-2-yl)-6-fluoro-1,4-dihydro-4-oxo-(9CI) (CA INDEX NAME)

RN 91196-83-7 CAPLUS

CN 1,8-Naphthyridine-3-carboxylic acid, 7-(2,7-diazaspiro[4.4]non-2-yl)-1-ethyl-6-fluoro-1,4-dihydro-4-oxo-, monohydrochloride (9CI) (CA INDEX NAME)

● HCl

L13 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN GI

$$X$$
 $X$ 
 $CO_2R^2$ 
 $R^3$ 
 $R^3$ 

The title compds. [I; A = N, CR9; R1 = Me, Et, cyclopropyl, etc.; R2 = H, alkyl, (5-methyl-2-oxo-1,3-dioxol-4-yl)methyl; R3 = Me, 13 N-attached heterocyclyl; R9 = H, halo, Me, cyano, NO2; R1R9 = OCH2CHMe, SCH2CHMe, CH2CH2CHMe] were prepared C6F5COCH2CO2Et (preparation given) was refluxed 2 h with HC(OEt)3 in Ac2O to give C6F5COC(CO2Et):CHOEt which was treated overnight with cyclopropylamine in EtOH to give C6F5COC(CO2Et):CHNHR (R = cyclopropyl). The latter was refluxed 3 h in DMF containing NaF to give, after saponification, quinolonecarboxylate II (R3 = Y = F) which was refluxed

3 h
with 1-methylpiperazine in MeCN/DMF containing Dabco to give II (R3 =
4-methyl-1-piperazinyl, Y = F) (III). Tablets were prepared each containing

583.0, cellulose 55.0, starch 72.0, polyvinylpyrrolidone 30.0, SiO2 5.0, and Mg stearate 5.0 mg with a coating comprising (hydroxypropyl)methylcellulose 6.0, Macrogol 40,000 2.0, and TiO2 2.0 mg.

II (R3 = 3-methyl-1-piperazinyl, Y = NH2) had a min. inhibitory concentration of

0.5 (units not given) against Escherichia coli 455/7.

AN 1989:114697 CAPLUS

DN 110:114697

TI Preparation of 5-substituted quinolone- and naphthyridonecarboxylic acids as antibacterial agents

IN Petersen, Uwe; Grohe, Klaus; Schriewer, Michael; Schenke, Thomas; Haller, Ingo; Metzger, Karl; Endermann, Rainer; Zeiler, Hans Joachim

PA Bayer A.-G., Fed. Rep. Ger.

SO Ger. Offen., 32 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1 PATENT NO. KIND APPLICATION NO. DATE DATE ---- $\mathtt{PI}$ DE 3711193 **A**1 19881013 DE 1987-3711193 19870402 19881003 NO 1988-1121 NO 8801121 Α 19880314 EP 284935 **A**1 19881005 EP 1988-104452 19880321 R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, NL, SE AU 8813811 A1 19881006 AU 1988-13811 19880328 DD 274029 **A**5 19891206 DD 1988-314159 19880329 DK 8801802 Α 19881003 DK 1988-1802 19880330 FI 8801501 Α 19881003 FI 1988-1501 19880330 CN 88101741 Α 19881116 CN 1988-101741 19880331 ZA 8802318 Α 19881228 ZA 1988-2318 19880331 19881026 **A2** JP 63258855 JP 1988-78298 19880401 HU 47098 A2 19890130 HU 1988-1619 19880401 HU 201050 В 19900928 PRAI DE 1987-3711193 19870402

CASREACT 110:114697; MARPAT 110:114697 OS

119354-28-8P IT

> RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of, as antibacterial agent)

119354-28-8 CAPLUS RN

1,8-Naphthyridine-3-carboxylic acid, 5-amino-1-ethyl-6-fluoro-1,4-dihydro-CN 7-(7-methyl-2,7-diazaspiro[4.4]non-2-yl)-4-oxo- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & \text{Et} & \text{Me} \\ \hline & N & N & N \\ \hline &$$

L13 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN GI

- ABThe title compds. (I; X = FC, N; R1 = H, alkyl, cation; R2 = amino, heterocyclyl) were prepared Thus, 2,3,4,5-F4C6HCO2H was converted to its acid chloride and condensed with EtO2CCH2CO2H to give 2,3,4,5-F4C6HCOCH2CO2H. This was cyclocondensed with (EtO) 3CH and cyclopropylamine to give I (X = FC, R1 = H, R2 = F). The latter was treated with 3-pyrrolidinemethanamine to give 7-[3-(aminomethyl)-1pyrrolidinyl]-3-quinolinecarboxylic acid derivative II. II had a min. inhibitory concentration of <0.1 µg/mL against, e.g., Escherichia coli Vogel.
- AN1986:34013 CAPLUS
- DN104:34013
- $\mathtt{TI}$ 7-Substituted-1-cyclopropyl-6,8-difluoro-1,4-dihydro-4-oxo-3quinolinecarboxylic acids; 7-substituted-1-cyclopropyl-1,4-dihydro-6fluoro-4-oxo-1,8-naphthyridine-3-carboxylic acids and their derivatives
- Culbertson, Townley P.; Mich, Thomas F.; Domagala, John M.; Nichols, INJeffrey B.
- Warner-Lambert Co. , USA PA
- Eur. Pat. Appl., 137 pp. SO

CODEN: EPXXDW

 $\mathbf{DT}$ Patent

	PATENT NÓ.	KIND	DATE	APPLICATION NO.	DATE				
PI	EP 153163	A2	19850828	EP 1985-301009	19850215				
	EP 153163	A3	19860129	•					
	EP 153163	B1	19891227						
	R: AT, BE, C	H, DE, FR	R, GB, IT,	LI, LU, NL, SE					
	US 4665079	\ <b>A</b>	19870512	US 1985-692820	19850123				
	ZA 8500854	A	19860924	ZA 1985-854	19850204				
	CA 1289956	A1	19911001	CA 1985-473502	19850204				
	IL 74286	A1	19880731	IL 1985-74286	19850208				
	AU 8538618	A1	19850822	AU 1985-38618	19850211				
	AU 568004	B2	19871210						
	DK 8500687	Α	19850818	DK 1985-687	19850214				
	DK 161889	В	19910826						
	DK 161889	C	19920203						
	FI 8500631	A	19850818	FI 1985-631	19850215				
	FI 83312	В	19910315						
	FI 83312	C	19910625						
	NO 8500614	A	19850819	NO 1985-614	19850215				
	NO 161370	В	19890502						
	NO 161370	C	19890809						
	JP 60214773	A2	19851028	JP 1985-26669	19850215				
	JP 07055945	B4	19950614						
	HU 37149	0	19851128	HU 1985-580	19850215				
	ES 540441	A1	19870501	ES 1985-540441	19850215				
	AT 48997	E	19900115	AT 1985-301009	19850215				
	JP 07173160	A2	19950711	JP 1994-278595	19941019				
PRAI	US 1984-581157		19840217						
	US 1985-692820		19850123						
	US 1982-416406		19820909						
	US 1983-522275		19830812						
	IL 1983-69601		19830830						
	EP 1985-301009		19850215						
os	CASREACT 104:34013								
IT	91188-24-8P 91188	-27- <b>1P</b> 91	188-34-0P						
	99734-94-8P								
	RL: BAC (Biologica	al activi	ty or effe	ector, except adverse);	BSU (Biologic				
	study, unclassifie	ed); SPN	(Synthetic	c preparation); THU (Th	erapeutic use)				
				aration); USES (Uses)	-				
	(preparation of	**	_						
RN	91188-24-8 CAPLUS	•	•						
CN	1,8-Naphthyridine	-3-carbox	ylic acid	, 7-(2,7-diazaspiro[4.4	]non-2-v1)-1-				
				, , , , , , , , , , , , , , , , , , , ,	, , <b>-</b> , - ,				

RN 91188-27-1 CAPLUS

CN 1,8-Naphthyridine-3-carboxylic acid, 1-ethyl-6-fluoro-1,4-dihydro-7-(7-methyl-2,7-diazaspiro[4.4]non-2-yl)-4-oxo- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & \text{Et} & \text{Me} \\ \hline \\ N & N & N \\ \hline \\ HO_2C & F \\ \end{array}$$

RN 91188-34-0 CAPLUS

CN 1,8-Naphthyridine-3-carboxylic acid, 1-ethyl-7-(7-ethyl-2,7-diazaspiro[4.4]non-2-yl)-6-fluoro-1,4-dihydro-4-oxo-(9CI) (CA INDEX NAME)

RN 99734-94-8 CAPLUS

CN 1,8-Naphthyridine-3-carboxylic acid, 7-(2,7-diazaspiro[4.4]non-2-yl)-1-ethyl-6-fluoro-1,4-dihydro-4-oxo-, hydrochloride (9CI) (CA INDEX NAME)

•x HCl

L13 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN GI

$$\begin{array}{c|c}
R & CO_2R^3 \\
\hline
R^1 & Z & N \\
R^2 & I
\end{array}$$

$$R$$
 $CO_2R^3$ 
 $R^5$ 
 $R^5$ 
 $MeN$ 
 $NH$ 
 $III$ 

Title compds. I and II [R = H, halo; R1 = (un)substituted N heterocycle; R2 = alkyl, haloalkyl, hydroxyalkyl, cycloalkyl, vinyl; R3 = H, alkyl, cation; R4, R5 = H, alkyl; Z = H, (un)substituted CH] were prepared Thus, II (R = R1 = F, R3 = R4 = H, R5 = Me) was treated with diazaspirononane III.2HCl, prepared from Et 3-(ethoxycarbonyl)-5-oxo-3-pyrrolidineacetate, to give II (R = 7-methyl-2,7-diazaspiro[4,4]non-2-yl), which had a min. inhibitory concentration against Staphylococcus aureus UC-76 of 0.006  $\mu$ g/mL.

AN 1984:472740 CAPLUS

DN 101:72740

TI Antibacterial agents

IN Culbertson, Townley P.; Mich, Thomas F.; Domagala, John M.; Nichols, Jeffrey B.

PA Warner-Lambert Co. , USA

SO Eur. Pat. Appl., 125 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 3

TENT NO.	KIND	DATE	APPLICATION NO.	DATE
106489 106489	A2 A3	19840425 19850424	EP 1983-305148	19830906
R: AT, BE, CH,	DE, FR	, GB, IT, LI		
8306357	A	19840425	ZA 1983-6357	19830826
69601	A1	19870831	IL 1983-69601	19830830
80848	A1	19880930	IL 1983-80848	19830830
80849	A1	19881031	IL 1983-80849	19830830
8303151	Α	19840310	FI 1983-3151	19830905
83513	В	19910415		
83513	C	19910725		
8318698	A1	19840315	AU 1983-18698	19830905
562286	B2	19870604		
35987	E	19880815	AT 1983-305148	19830906
246065	B2	19861016	CS 1983-6498	19830907
8304074	Α	19840310	DK 1983-4074	19830908
171098	B1	19960603		
	106489 106489 106489 R: AT, BE, CH, 8306357 69601 80848 80849 8303151 83513 83513 83513 8318698 562286 35987 246065 8304074	106489 A2 106489 B1 R: AT, BE, CH, DE, FR 8306357 A 69601 A1 80848 A1 80849 A1 8303151 A 83513 B 83513 C 8318698 A1 562286 B2 35987 E 246065 B2 8304074 A	106489 A2 19840425 106489 B1 19880727 R: AT, BE, CH, DE, FR, GB, IT, LI 8306357 A 19840425 69601 A1 19870831 80848 A1 19880930 80849 A1 19881031 8303151 A 19840310 83513 B 19910415 83513 C 19910725 8318698 A1 19840315 562286 B2 19870604 35987 E 19880815 246065 B2 19861016 8304074 A 19840310	106489 A2 19840425 EP 1983-305148 106489 B1 19880727 R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE 8306357 A 19840425 ZA 1983-6357 69601 A1 19870831 IL 1983-69601 80848 A1 19880930 IL 1983-80848 80849 A1 19881031 IL 1983-80849 8303151 A 19840310 FI 1983-3151 83513 B 19910415 83513 C 19910725 8318698 A1 19840315 AU 1983-18698 562286 B2 19870604 35987 E 19880815 AT 1983-305148 246065 B2 19861016 CS 1983-6498 8304074 A 19840310 DK 1983-4074

	NO 8303206	A	19840312	NO 1983-3206	19830908
	NO 164418	В	19900625		
	NO 164418	C	19901003		
	JP 59067269	A2	19840416	JP 1983-164271	19830908
	JP 07042284	B4	19950510		
	HU 31718	0	19840528	HU 1983-3140	19830908
	HU 196986	В	19890228		
	DD 216010	<b>A5</b>	19841128	DD 1983-254624	19830908
	ES 525493	A1	19850116	ES 1983-525493	19830908
•	SU 1360584	A3	19871215	SU 1983-3659624	19831103
	ES 529934	A1	19850601	ES 1984-529934	19840222
	ES 529936	A1	19850616	ES 1984-529936	19840222
	ES 529937	A1	19850616	ES 1984-529937	19840222
	ES 529935	A1	19850701	ES 1984-529935	19840222
	ES 529933	A1	19851016	ES 1984-529933	19840222
	SU 1321376	A3	19870630	SU 1984-3732809	19840427
	SU 1314954	A3	19870530	SU 1984-3736502	19840503
	CS 246083	B2	19861016	CS 1984-4630	19840618
	CS 246084	B2	19861016	CS 1984-4631	19840618
	CS 247180	B2	19861218	CS 1984-4632	19840618
	JP 01146880 /	A2	19890608	JP 1988-282640	19881110
	JP 04210961	A2	19920803	JP 1991-53587	19910227
	JP 06062561	B4	19940817		
,	JP 07070111	A2	19950314	JP 1994-32109	19940302
	JP 07080770	B4	19950830		
	DK 9400700	A	19940616	DK 1994-70094	19940616
	DK 170471	B1	19950911	DK 1994-700	19940616
	JP 08311061	A2	19961126	JP 1996-134697	19960529
	JP 2704984	B2	19980126		
PRAI	US 1982-416406		19820909		
	US 1983-522275		19830812		
	IL 1983-69601		19830830		
•	EP 1983-305148		19830906		
	CS 1983-6498		19830907		
	JP 1983-164271		19830908		
${ t IT}$	91188-24-8P 91188-2	27-1P 9	1188-34-0P	- 5.	
	91196-83-7P				
	RL: BAC (Biologica)	l activ	rity or effec	tor, except adverse	); BSU (Biologic
	study unclassified	$A) \cdot SDM$	(Symthetic	nreparation) · RIOI.	(Piological

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation and bactericidal activity of)

RN 91188-24-8 CAPLUS

CN 1,8-Naphthyridine-3-carboxylic acid, 7-(2,7-diazaspiro[4.4]non-2-yl)-1-ethyl-6-fluoro-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)

RN 91188-27-1 CAPLUS

CN 1,8-Naphthyridine-3-carboxylic acid, 1-ethyl-6-fluoro-1,4-dihydro-7-(7-

methyl-2,7-diazaspiro[4.4]non-2-yl)-4-oxo- (9CI) (CA INDEX NAME)

RN 91188-34-0 CAPLUS

CN 1,8-Naphthyridine-3-carboxylic acid, 1-ethyl-7-(7-ethyl-2,7-diazaspiro[4.4]non-2-yl)-6-fluoro-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)

RN 91196-83-7 CAPLUS

CN 1,8-Naphthyridine-3-carboxylic acid, 7-(2,7-diazaspiro[4.4]non-2-yl)-1-ethyl-6-fluoro-1,4-dihydro-4-oxo-, monohydrochloride (9CI) (CA INDEX NAME)

● HCl

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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

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TOTAL SESSION

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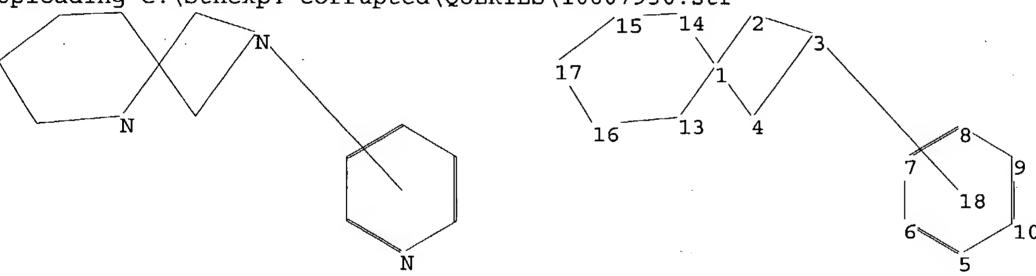
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ring nodes :

1 2 3 4 5 6 7 8 9 10 13 14 15 16 17

ring bonds :

1-4 1-2 1-13 1-14 2-3 3-4 5-6 5-10 6-7 7-8 8-9 9-10 13-16 14-15 15-17 16-17

exact/norm bonds :

1-4 1-2 1-13 1-14 2-3 3-4 13-16 14-15 15-17 16-17

normalized bonds :

5-6 5-10 6-7 7-8 8-9 9-10

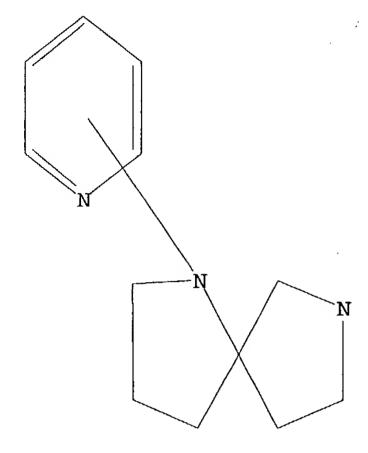
G1:C,N

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS

L15 STRUCTURE UPLOADED

=> d l15 L15 HAS NO ANSWERS L15 STR



G1 C, N

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=> s 115

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SAMPLE SCREEN SEARCH COMPLETED - 307 TO ITERATE

100.0% PROCESSED 307 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 5089 TO

5089 TO 7191

PROJECTED ANSWERS:

0 TO 0

L16

0 SEA SSS SAM L15

=> a l15 ful

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=> s 115 ful

FULL SEARCH INITIATED 15:23:49 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 6161 TO ITERATE

100.0% PROCESSED 6161 ITERATIONS SEARCH TIME: 00.00.01

4 ANSWERS

10607930

L17 4 SEA SSS FUL L15

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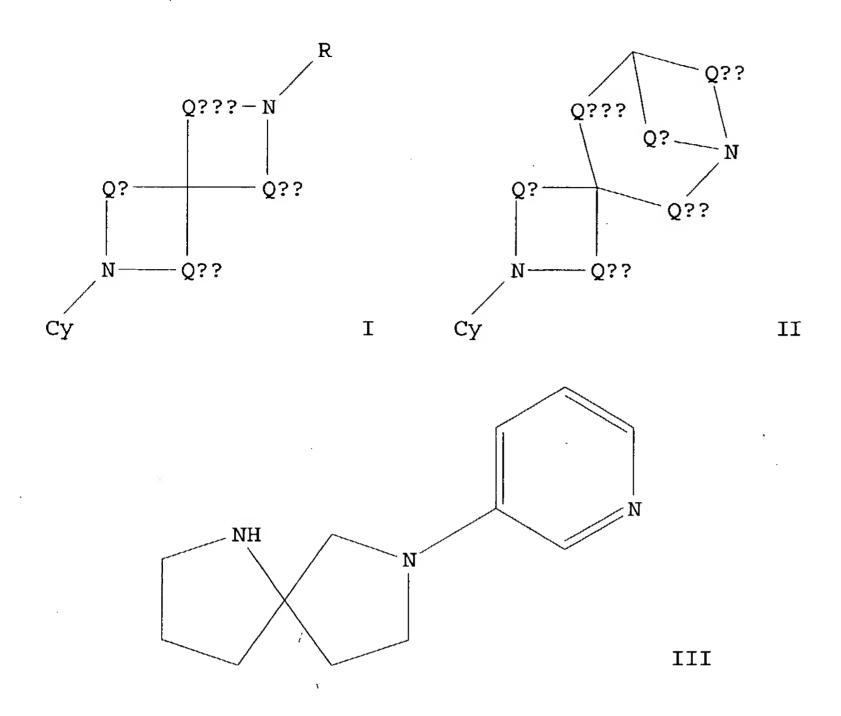
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=> d abs bib fhitstr

L18 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN



Compds., pharmaceutical compns. including the compds., and methods of ABpreparation and use thereof are disclosed. The compds. are N-aryl diazaspirocyclic compds. (shown as I and II; variables defined below; e.g. III), bridged analogs of N-heteroaryl diazaspirocyclic compds., or prodrugs or metabolites of these compds. The aryl group can be a five or six-membered heterocyclic ring (heteroaryl). The compds. and compns. can be used to treat and/or prevent a wide variety of conditions or disorders, particularly those disorders characterized by dysfunction of nicotinic cholinergic neurotransmission, including disorders involving neuromodulation of neurotransmitter release, such as dopamine release CNS disorders, which were characterized by an alteration in normal neurotransmitter release, are another example of disorders that can be treated and/or prevented. The compds. and compns. can also be used to alleviate pain. The compds. can alter the number of nicotinic cholinergic receptors of the brain of the patient, exhibit neuroprotective effects and when employed in effective amts., not result in appreciable adverse side effects (e.g. side effects such as significant increases in blood pressure and heart rate, significant neg. effects upon the gastrointestinal tract, and significant effects upon skeletal muscle). For the  $\alpha 4\beta 2$ subtype, the Ki value for each of the examples of I was <1  $\mu M$ , indicating that I bind tightly to the receptor. Although the methods of preparation are not claimed, 13 example prepns. are included. For example, III was prepared in 5 steps (76, 93, 96, 66 and 88 % yields, resp.) starting from Et (S)-N-benzylpyrrolidine-2-carboxylate and nitroethylene and involving intermediates Et 2-(2-nitroethyl)-1-benzylpyrrolidine-2carboxylate, 6-benzyl-2,6-diazaspiro[4.4]nonan-1-one, 1-benzyl-1,7diazaspiro[4.4] nonane and 1-benzyl-7-(3-pyridyl)-1,7diazaspiro[4.4] nonane. For I: Q1 is (CZ2)u; QII is (CZ2)v; QIII is (CZ2)w; and QIV is (CZ2)x; u, v, w and x are individually 0-4, preferably 0-3; R is H, lower alkyl, acyl, alkoxycarbonyl or aryloxycarbonyl; Z is H

and (un) substituted alkyl, cycloalkyl, heterocyclyl, aryl, alkylaryl, arylalkyl; Cy is a six membered ring linked via C to the N of the rest of I and each of the remaining ring atoms = N, N bonded to O or C bonded to a substituent species, wherein ≤3 are N or N bonded to O, or Cy is a five 5-membered heteroarom. ring linked via C to the N of the rest of I; addnl. details are given in the claims. For II: QV = (CZ2)y; QVI = (CZ2)z; y and z = 0-4; the bridged diazaspirocyclic ring contains 8-13 members; the rest of the variables are defined similarly to those for I. AN2004:41475 CAPLUS DN140:111404 Preparation of N-aryl diazaspirocyclic compounds as nicotinic cholinergic TIreceptor modulators for treating nervous system and other disorders Bhatti, Balwinder S.; Miller, Craig H.; Schmidt, Jeffrey D. INTarqacept, Inc., USA PAPCT Int. Appl., 101 pp. SO CODEN: PIXXD2 Patent DTEnglish LAFAN.CNT 1 APPLICATION NO. PATENT NO. KIND DATE DATE PIWO 2004005293 A2 20040115 WO 2003-US20524 20030627 WO 2004005293 **A3** 20040513 AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG US 2004067930 A1 20040408 20030627 US 2003-607930 PRAI US 2002-394337P P 20020705 OS MARPAT 140:111404 646055-65-4P, 1-(3-Pyridyl)-1,7-diazaspiro[4.4] nonane RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (drug candidate; preparation of N-aryl diazaspirocyclic compds. as nicotinic cholinergic receptor modulators for treating nervous system and other disorders) 646055-65-4 CAPLUS RN1,7-Diazaspiro[4.4]nonane, 1-(3-pyridinyl)- (9CI) (CA INDEX NAME) CN

=> file registry COST IN U.S. DOLLARS TOTAL SINCE FILE ENTRY SESSION 748.67 5.64 FULL ESTIMATED COST TOTAL DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE ENTRY SESSION -0.70 -17.50CA SUBSCRIBER PRICE

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STRUCTURE FILE UPDATES: 21 SEP 2004 HIGHEST RN 749178-43-6 DICTIONARY FILE UPDATES: 21 SEP 2004 HIGHEST RN 749178-43-6

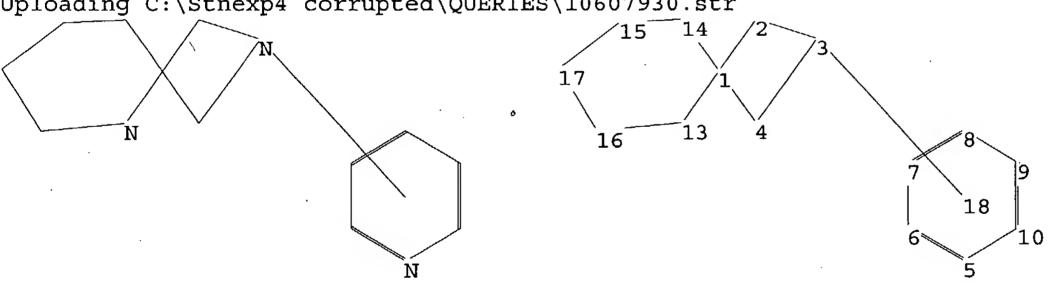
TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Stnexp4 corrupted\QUERIES\10607930.str



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1 2 3 4 5 6 7 8 9 10 13 14 15 16 17

ring bonds :

1-4 1-2 1-13 1-14 2-3 3-4 5-6 5-10 6-7 7-8 8-9 9-10 13-16 14-15 15-17 16-17

exact/norm bonds :

1-4 1-2 1-13 1-14 2-3 3-4 13-16 14-15 15-17 16-17

normalized bonds :

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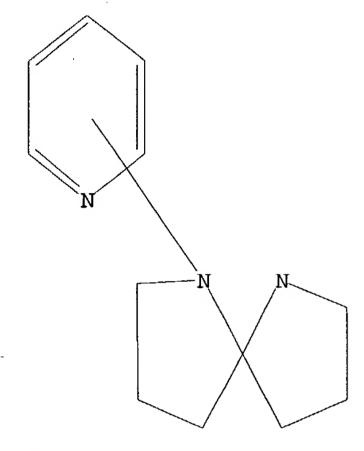
G1:C,N

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS

STRUCTURE UPLOADED L19

=> d 119L19 HAS NO ANSWERS L19 STR



G1 C, N

Structure attributes must be viewed using STN Express query preparation.

=> s 119

SAMPLE SEARCH INITIATED 15:25:32 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 41 TO ITERATE

100.0% PROCESSED 41 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 436 TO 1204 PROJECTED ANSWERS: 0 TO 0

L20 0 SEA SSS SAM L19

=> s 119 ful

FULL SEARCH INITIATED 15:25:37 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 605 TO ITERATE

100.0% PROCESSED 605 ITERATIONS

0 ANSWERS

}

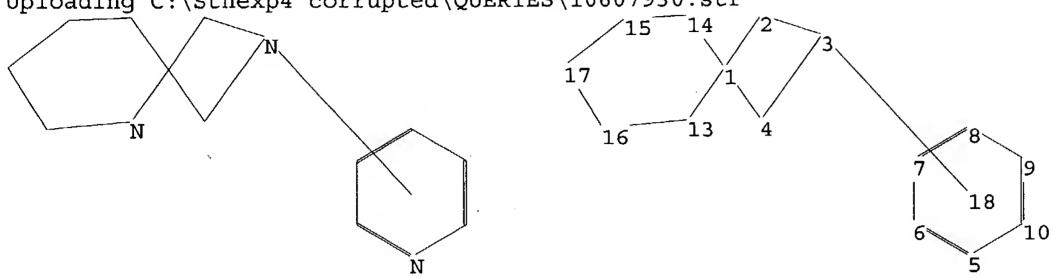
SEARCH TIME: 00.00.01

10607930

L21 0 SEA SSS FUL L19

=>

Uploading C:\Stnexp4 corrupted\QUERIES\10607930.str



ring nodes :

1 2 3 4 5 6 7 8 9 10 13 14 15 16 17

ring bonds :

1-4 1-2 1-13 1-14 2-3 3-4 5-6 5-10 6-7 7-8 8-9 9-10 13-16 14-15 15-17

16-17

exact/norm bonds :

1-4 1-2 1-13 1-14 2-3 3-4 13-16 14-15 15-17 16-17

normalized bonds :

5-6 5-10 6-7 7-8 8-9 9-10

G1:C,N

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom

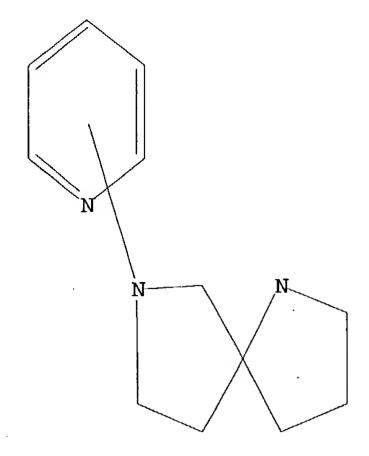
13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS

L22 STRUCTURE UPLOADED

=> d 122

L22 HAS NO ANSWERS

L22 STR



G1 C, N

Structure attributes must be viewed using STN Express query preparation.

=> s 122

SAMPLE SEARCH INITIATED 15:26:48 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 307 TO ITERATE

100.0% PROCESSED 307

307 ITERATIONS 2 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS:

5089 TO 7191

PROJECTED ANSWERS:

2 TO 124

L23

2 SEA SSS SAM L22

=> s 122 ful

FULL SEARCH INITIATED 15:26:53 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 6161 TO ITERATE

100.0% PROCESSED 6161 ITERATIONS

40 ANSWERS

SEARCH TIME: 00.00.01

L24

40 SEA SSS FUL L22

=> file caplus

COST IN U.S. DOLLARS
SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST
311.26 1059.93

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL ENTRY SESSION

CA SUBSCRIBER PRICE 0.00 -17.50

FILE 'CAPLUS' ENTERED AT 15:26:57 ON 22 SEP 2004 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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FILE COVERS 1907 - 22 Sep 2004 VOL 141 ISS 13 FILE LAST UPDATED: 21 Sep 2004 (20040921/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 124 L25 2 L24

=> d abs bib fhitstr 1-2

L25 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN GI

```
Compds., pharmaceutical compns. including the compds., and methods of
AB
     preparation and use thereof are disclosed. The compds. are N-aryl
     diazaspirocyclic compds. (shown as I and II; variables defined below; e.g.
     III), bridged analogs of N-heteroaryl diazaspirocyclic compds., or
     prodrugs or metabolites of these compds. The aryl group can be a five or
     six-membered heterocyclic ring (heteroaryl). The compds. and compns. can
     be used to treat and/or prevent a wide variety of conditions or disorders,
     particularly those disorders characterized by dysfunction of nicotinic
     cholinergic neurotransmission, including disorders involving
     neuromodulation of neurotransmitter release, such as dopamine release.
     CNS disorders, which were characterized by an alteration in normal
     neurotransmitter release, are another example of disorders that can be
     treated and/or prevented. The compds. and compns. can also be used to
     alleviate pain. The compds. can alter the number of nicotinic cholinergic
     receptors of the brain of the patient, exhibit neuroprotective effects and
     when employed in effective amts., not result in appreciable adverse side
     effects (e.g. side effects such as significant increases in blood pressure
     and heart rate, significant neg. effects upon the gastrointestinal tract,
     and significant effects upon skeletal muscle). For the \alpha 4\beta 2
     subtype, the Ki value for each of the examples of I was <1 \muM,
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     preparation are not claimed, 13 example prepns. are included. For example, III
     was prepared in 5 steps (76, 93, 96, 66 and 88 % yields, resp.) starting
     from Et (S)-N-benzylpyrrolidine-2-carboxylate and nitroethylene and
     involving intermediates Et 2-(2-nitroethyl)-1-benzylpyrrolidine-2-
     carboxylate, 6-benzyl-2,6-diazaspiro[4.4]nonan-1-one, 1-benzyl-1,7-
     diazaspiro[4.4] nonane and 1-benzyl-7-(3-pyridyl)-1,7-
     diazaspiro[4.4] nonane. For I: Q1 is (CZ2)u; QII is (CZ2)v; QIII is
     (CZ2)w; and QIV is (CZ2)x; u, v, w and x are individually 0-4, preferably
     0-3; R is H, lower alkyl, acyl, alkoxycarbonyl or aryloxycarbonyl; Z is H
     and (un) substituted alkyl, cycloalkyl, heterocyclyl, aryl, alkylaryl,
     arylalkyl; Cy is a six membered ring linked via C to the N of the rest of
     I and each of the remaining ring atoms = N, N bonded to O or C bonded to a
     substituent species, wherein ≤3 are N or N bonded to O, or Cy is a
     five 5-membered heteroarom. ring linked via C to the N of the rest of I;
     addnl. details are given in the claims. For II: QV = (CZ2)y; QVI =
     (CZ2)z; y and z = 0-4; the bridged diazaspirocyclic ring contains 8-13
     members; the rest of the variables are defined similarly to those for I.
AN
     2004:41475 CAPLUS
DN
     140:111404
TI
     Preparation of N-aryl diazaspirocyclic compounds as nicotinic cholinergic
     receptor modulators for treating nervous system and other disorders
    Bhatti, Balwinder S.; Miller, Craiq H.; Schmidt, Jeffrey D.
IN
PA
     Targacept, Inc., USA
    PCT Int. Appl., 101 pp.
SO
     CODEN: PIXXD2
DT
     Patent
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     English
FAN.CNT 1
     PATENT NO.
                         KIND
                                DATE
                                            APPLICATION NO.
                                                                   DATE
PI
    WO 2004005293
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                                20040115
                                            WO 2003-US20524
                                                                   20030627
    WO 2004005293
                          A3
                                20040513
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             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
            GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
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LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,

IT

PL, PT, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 2004067930

A1 20040408 US 2003-607930 20030627

PRAI US 2002-394337P P 20020705

OS MARPAT 140:111404

646055-99-4P, (+)-7-(3-Pyridyl)-1,7-diazaspiro[4.4] nonane
RL: PAC (Pharmacological activity); PUR (Purification or recovery); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of N-aryl diazaspirocyclic compds. as nicotinic cholinergic receptor modulators for treating nervous system and other disorders)

RN 646055-99-4 CAPLUS

CN 1,7-Diazaspiro[4.4]nonane, 7-(3-pyridinyl)-, (+)- (9CI) (CA INDEX NAME)

Rotation (+).

L25 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN GI

$$R^{5}$$
 $R^{4}$ 
 $R^{3}$ 
 $R^{6}$ 
 $N$ 
 $N$ 
 $S$ 
 $R^{1}$ 
 $R^{2}$ 
 $R^{2}$ 
 $R^{3}$ 

The title compds. (I; X = N or C-Rx, with Rx =H, halogen; R1, R2 = H, halogen; R3 = H, carboxyl; R4 = oxo, OH; R5 = H, amino; R6 = substituted cyclic amino groups) and their physiol. acceptable salts are claimed as antitumor drugs. Thus, I were prepared, and their antitumor activities were

tested in animal models.

AN 1997:594555 CAPLUS

DN 127:288165

TI Antitumor compounds

IN Tomita, Kyoji; Chiba, Katsumi; Kashimoto, Shigeki; Nakada, Katsuhisa; Shibamori, Koichiro; Chikugi, Yasutomo; Tajima, Masanori; Oue, Tomio

PA Dainippon Pharmaceutical Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 74 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN CNT 1

FAM.	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
ΡI	JP 09221424	A2	19970826	JP 1996-351948	19961210	
PRAI	JP 1995-347310		19951213			

OS MARPAT 127:288165

IT 196821-77-9P

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(antitumor compds.)

RN 196821-77-9 CAPLUS

CN 1,8-Naphthyridine-3-carboxylic acid, 6-fluoro-1,4-dihydro-7-(9-methylene-1,7-diazaspiro[4.4]non-7-yl)-4-oxo-1-(2-thiazolyl)- (9CI) (CA INDEX NAME)

=> file registry COST IN U.S. DOLLARS TOTAL SINCE FILE ENTRY SESSION FULL ESTIMATED COST 1069.89 9.96 DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL ENTRY SESSION -18.90 CA SUBSCRIBER PRICE -1.40

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STRUCTURE FILE UPDATES: 21 SEP 2004 HIGHEST RN 749178-43-6

DICTIONARY FILE UPDATES: 21 SEP 2004 HIGHEST RN 749178-43-6

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

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Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

=> file registry COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION FULL ESTIMATED COST 0.84 1070.73 DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL ENTRY SESSION CA SUBSCRIBER PRICE 0.00 -18.90

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STRUCTURE FILE UPDATES: 21 SEP 2004 HIGHEST RN 749178-43-6 DICTIONARY FILE UPDATES: 21 SEP 2004 HIGHEST RN 749178-43-6

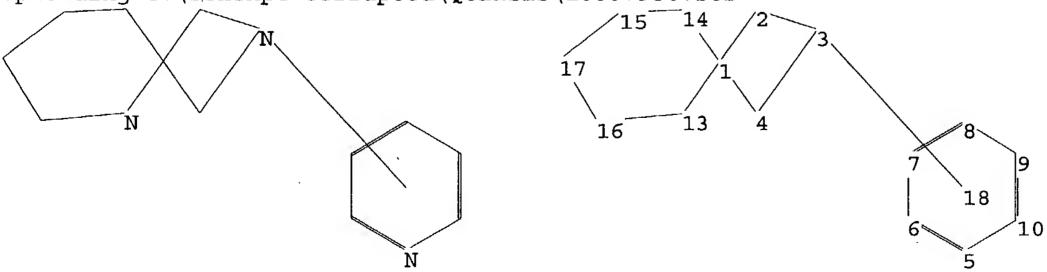
TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

=> Uploading C:\Stnexp4 corrupted\QUERIES\10607930.str



ring nodes :

1 2 3 4 5 6 7 8 9 10 13 14 15 16 17

ring bonds :

1-4 1-2 1-13 1-14 2-3 3-4 5-6 5-10 6-7 7-8 8-9 9-10 13-16 14-15 15-17

16-17

exact/norm bonds :

1-4 1-2 1-13 1-14 2-3 3-4 13-16 14-15 15-17 16-17

normalized bonds :

5-6 5-10 6-7 7-8 8-9 9-10

G1:C,N

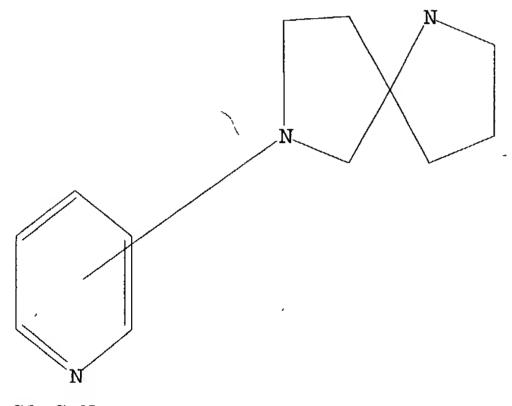
Match level:

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom

13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS

L26 STRUCTURE UPLOADED

=> d 126 L26 HAS NO ANSWERS L26 STR



G1 C,N

Structure attributes must be viewed using STN Express query preparation.

=> s 126

SAMPLE SEARCH INITIATED 15:28:53 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 307 TO ITERATE

100.0% PROCESSED 307 ITERATIONS

2 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 5089 TO 7191

10607930

PROJECTED ANSWERS:

2 TO 124

L27

2 SEA SSS SAM L26

=> s 126 ful

FULL SEARCH INITIATED 15:28:59 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 6161 TO ITERATE

100.0% PROCESSED 6161 ITERATIONS

40 ANSWERS

-18.90

0.00

SEARCH TIME: 00.00.01

CA SUBSCRIBER PRICE

L28

40 SEA SSS FUL L26

=> file caplus

COST IN U.S. DOLLARS

ENTRY
SESSION
FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE
TOTAL
ENTRY
SESSION
ENTRY
SESSION

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FILE COVERS 1907 - 22 Sep 2004 VOL 141 ISS 13 FILE LAST UPDATED: 21 Sep 2004 (20040921/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 128

L29

2 L28

=> d abs bib fhitstr 1-2

L29 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN GI

Compds., pharmaceutical compns. including the compds., and methods of ABpreparation and use thereof are disclosed. The compds. are N-aryl diazaspirocyclic compds. (shown as I and II; variables defined below; e.g. III), bridged analogs of N-heteroaryl diazaspirocyclic compds., or prodrugs or metabolites of these compds. The aryl group can be a five or six-membered heterocyclic ring (heteroaryl). The compds. and compns. can be used to treat and/or prevent a wide variety of conditions or disorders, particularly those disorders characterized by dysfunction of nicotinic cholinergic neurotransmission, including disorders involving neuromodulation of neurotransmitter release, such as dopamine release. CNS disorders, which were characterized by an alteration in normal neurotransmitter release, are another example of disorders that can be treated and/or prevented. The compds. and compns. can also be used to alleviate pain. The compds. can alter the number of nicotinic cholinergic receptors of the brain of the patient, exhibit neuroprotective effects and when employed in effective amts., not result in appreciable adverse side effects (e.g. side effects such as significant increases in blood pressure and heart rate, significant neg. effects upon the gastrointestinal tract, and significant effects upon skeletal muscle). For the  $\alpha 4\beta 2$ subtype, the Ki value for each of the examples of I was <1  $\mu M$ , indicating that I bind tightly to the receptor. Although the methods of preparation are not claimed, 13 example prepns. are included. For example, III was prepared in 5 steps (76, 93, 96, 66 and 88 % yields, resp.) starting from Et (S)-N-benzylpyrrolidine-2-carboxylate and nitroethylene and involving intermediates Et 2-(2-nitroethyl)-1-benzylpyrrolidine-2carboxylate, 6-benzyl-2,6-diazaspiro[4.4]nonan-1-one, 1-benzyl-1,7diazaspiro[4.4] nonane and 1-benzyl-7-(3-pyridyl)-1,7diazaspiro[4.4] nonane. For I: Q1 is (CZ2)u; QII is (CZ2)v; QIII is (CZ2)w; and QIV is (CZ2)x; u, v, w and x are individually 0-4, preferably 0-3; R is H, lower alkyl, acyl, alkoxycarbonyl or aryloxycarbonyl; Z is H

```
and (un) substituted alkyl, cycloalkyl, heterocyclyl, aryl, alkylaryl,
     arylalkyl; Cy is a six membered ring linked via C to the N of the rest of
     I and each of the remaining ring atoms = N, N bonded to O or C bonded to a
     substituent species, wherein ≤3 are N or N bonded to O, or Cy is a
     five 5-membered heteroarom. ring linked via C to the N of the rest of I;
     addnl. details are given in the claims. For II: QV = (CZ2)y; QVI =
     (CZ2)z; y and z = 0-4; the bridged diazaspirocyclic ring contains 8-13
     members; the rest of the variables are defined similarly to those for I.
     2004:41475 CAPLUS
AN
DN
     140:111404
     Preparation of N-aryl diazaspirocyclic compounds as nicotinic cholinergic
ΤI
     receptor modulators for treating nervous system and other disorders
     Bhatti, Balwinder S.; Miller, Craig H.; Schmidt, Jeffrey D.
IN
PA
     Targacept, Inc., USA
     PCT Int. Appl., 101 pp.
SO
     CODEN: PIXXD2
DT
     Patent
     English
LA
FAN.CNT 1
     PATENT NO.
                         KIND
                                             APPLICATION NO.
                                DATE
                                                                    DATE
                          _ _ _ _
     WO 2004005293
                                                                    20030627
PI
                          A2
                                 20040115
                                             WO 2003-US20524
     WO 2004005293
                          A3
                                 20040513
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
             PL, PT, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US,
             UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,
             CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC,
             NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
             GW, ML, MR, NE, SN, TD, TG
     US 2004067930
                                             US 2003-607930
                          A1
                                 20040408
                                                                    20030627
PRAI US 2002-394337P
                          P
                                20020705
     MARPAT 140:111404
OS
     646055-99-4P, (+)-7-(3-Pyridyl)-1,7-diazaspiro[4.4] nonane
IT
     RL: PAC (Pharmacological activity); PUR (Purification or recovery); SPN
     (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study);
     PREP (Preparation); USES (Uses)
        (drug candidate; preparation of N-aryl diazaspirocyclic compds. as nicotinic
        cholinergic receptor modulators for treating nervous system and other
        disorders)
     646055-99-4 CAPLUS
RN
     1,7-Diazaspiro[4.4] nonane, 7-(3-pyridinyl)-, (+)- (9CI) (CA INDEX NAME)
CN
Rotation (+).
```

L29 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN GI

$$R^{5}$$
 $R^{4}$ 
 $R^{3}$ 
 $R^{6}$ 
 $N$ 
 $N$ 
 $S$ 
 $R^{1}$ 
 $R^{2}$ 
 $R^{2}$ 
 $R^{3}$ 

AB The title compds. (I; X = N or C-Rx, with Rx =H, halogen; R1, R2 = H, halogen; R3 = H, carboxyl; R4 = oxo, OH; R5 = H, amino; R6 = substituted cyclic amino groups) and their physiol. acceptable salts are claimed as antitumor drugs. Thus, I were prepared, and their antitumor activities were tested in animal models.

AN 1997:594555 CAPLUS

DN 127:288165

TI Antitumor compounds

IN Tomita, Kyoji; Chiba, Katsumi; Kashimoto, Shigeki; Nakada, Katsuhisa; Shibamori, Koichiro; Chikugi, Yasutomo; Tajima, Masanori; Oue, Tomio

PA Dainippon Pharmaceutical Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 74 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

1111.011 1					
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09221424	A2	19970826	JP 1996-351948	19961210
PRAI	JP 1995-347310		19951213		
OS	MARPAT 127:288165				

IT 196821-77-9P

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(antitumor compds.)

RN 196821-77-9 CAPLUS

CN 1,8-Naphthyridine-3-carboxylic acid, 6-fluoro-1,4-dihydro-7-(9-methylene-1,7-diazaspiro[4.4]non-7-yl)-4-oxo-1-(2-thiazolyl)- (9CI) (CA INDEX NAME)

=> file registry COST IN U.S. DOLLARS

SINCE FILE TOTAL SESSION ENTRY 9.96 1236.11

FULL ESTIMATED COST

SINCE FILE TOTAL

-1.40

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

ENTRY SESSION -20.30

CA SUBSCRIBER PRICE

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STRUCTURE FILE UPDATES: 21 SEP 2004 HIGHEST RN 749178-43-6 DICTIONARY FILE UPDATES: 21 SEP 2004 HIGHEST RN 749178-43-6

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

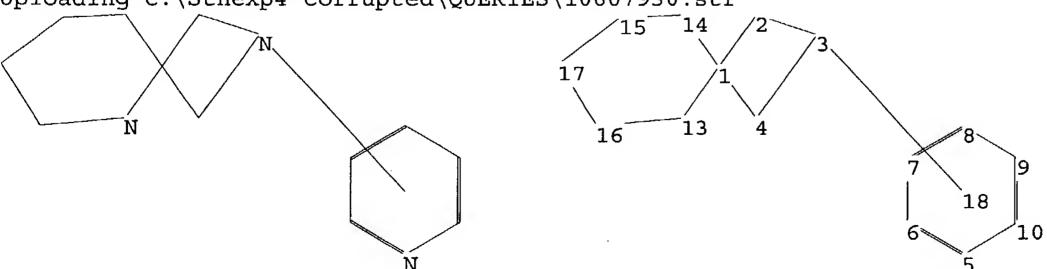
Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

=>

Uploading C:\Stnexp4 corrupted\QUERIES\10607930.str



ring nodes :

1 2 3 4 5 6 7 8 9 10 13 14 15 16 17

ring bonds :

1-4 1-2 1-13 1-14 2-3 3-4 5-6 5-10 6-7 7-8 8-9 9-10 13-16 14-15 15-17

16-17

exact/norm bonds :

1-4 1-2 1-13 1-14 2-3 3-4 13-16 14-15 15-17 16-17

normalized bonds :

5-6 5-10 6-7 7-8 8-9 9-10

### G1:C,N

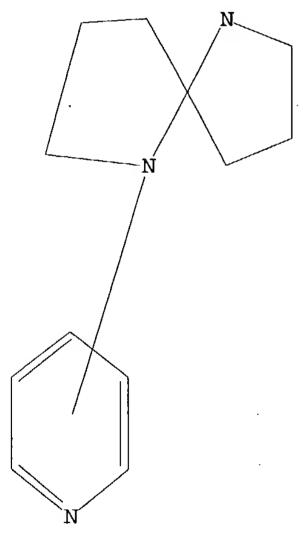
Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom

13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS

### L30 STRUCTURE UPLOADED

=> d 130 L30 HAS NO ANSWERS L30 STR



G1 C, N

Structure attributes must be viewed using STN Express query preparation.

=> s 130

SAMPLE SEARCH INITIATED 15:30:57 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 41 TO ITERATE

100.0% PROCESSED 41 ITERATIONS 0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 436 TO 1204

PROJECTED ANSWERS: 0 TO

L31 0 SEA SSS SAM L30

=> s 130 ful

FULL SEARCH INITIATED 15:31:03 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 605 TO ITERATE

100.0% PROCESSED 605 ITERATIONS 0 ANSWERS

SEARCH TIME: 00.00.01

L32 0 SEA SSS FUL L30

=> file registry

CA SUBSCRIBER PRICE

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION 157.52 1393.63

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL ENTRY SESSION

 $\sim 0.00$ 

-20.30

FILE 'REGISTRY' ENTERED AT 15:33:11 ON 22 SEP 2004 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2004 American Chemical Society (ACS)

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STRUCTURE FILE UPDATES: 21 SEP 2004 HIGHEST RN 749178-43-6 DICTIONARY FILE UPDATES: 21 SEP 2004 HIGHEST RN 749178-43-6

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

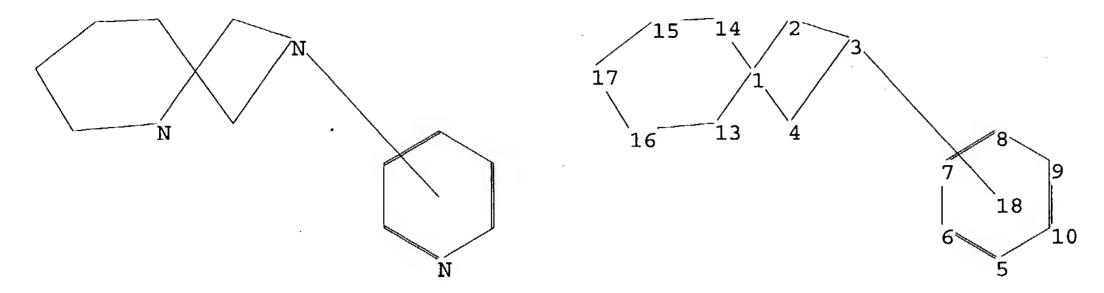
Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

Uploading C:\Stnexp4 corrupted\QUERIES\10607930.str

=>



ring nodes :

1 2 3 4 5 6 7 8 9 10 13 14 15 16 17

ring bonds :

1-4 1-2 1-13 1-14 2-3 3-4 5-6 5-10 6-7 7-8 8-9 9-10 13-16 14-15 15-17

16-17

exact/norm bonds :

1-4 1-2 1-13 1-14 2-3 3-4 13-16 14-15 15-17 16-17

normalized bonds :

5-6 5-10 6-7 7-8 8-9 9-10

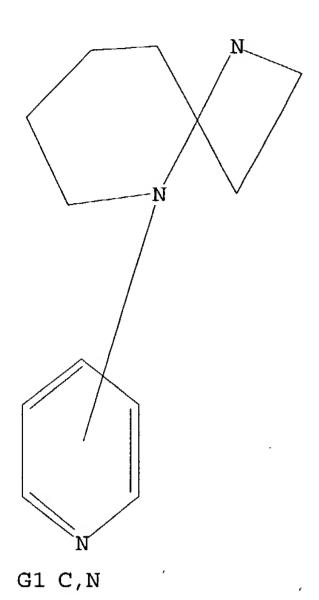
G1:C,N

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS

L33 STRUCTURE UPLOADED

=> d 133 L33 HAS NO ANSWERS L33 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 133 ful FULL SEARCH INITIATED 15:33:30 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 811 TO ITERATE

100.0% PROCESSED 811 ITERATIONS

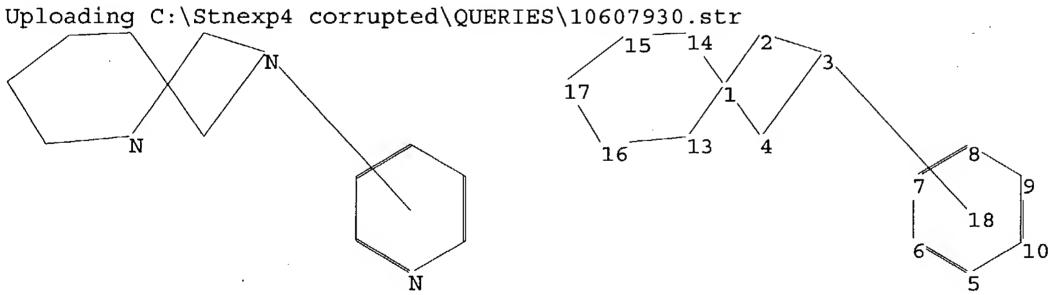
0 ANSWERS

SEARCH TIME: 00.00.01

L34

0 SEA SSS FUL L33

=>



ring nodes :

1 2 3 4 5 6 7 8 9 10 13 14 15 16 17

ring bonds :

1-4 1-2 1-13 1-14 2-3 3-4 5-6 5-10 6-7 7-8 8-9 9-10 13-16 14-15 15-17 16-17

exact/norm bonds :

1-4 1-2 1-13 1-14 2-3 3-4 13-16 14-15 15-17 16-17

10607930

normalized bonds :

5-6 5-10 6-7 7-8 8-9 9-10

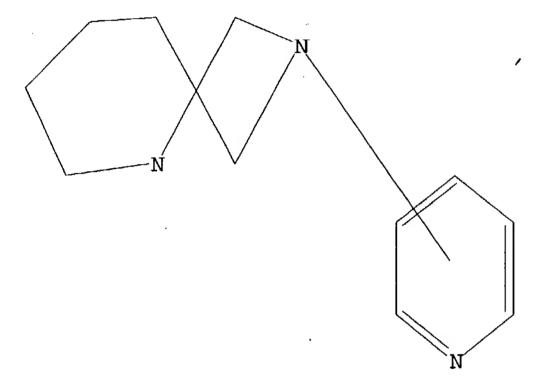
G1:C,N

Match level:

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS

STRUCTURE UPLOADED L35

=> d 135L35 HAS NO ANSWERS L35 STR



G1 C, N

Structure attributes must be viewed using STN Express query preparation.

=> s 135

SAMPLE SEARCH INITIATED 15:35:10 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 574 TO ITERATE

100.0% PROCESSED 574 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 10043 TO 12917

PROJECTED ANSWERS:

0 TO

L36 0 SEA SSS SAM L35

=> s 135 ful

FULL SEARCH INITIATED 15:35:14 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 11554 TO ITERATE

100.0% PROCESSED 11554 ITERATIONS

2 ANSWERS

SEARCH TIME: 00.00.01

L37

2 SEA SSS FUL L35

=> file caplus

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION

FULL ESTIMATED COST 311.68 1705.31

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL

CA SUBSCRIBER PRICE ENTRY SESSION 0.00 -20.30

FILE 'CAPLUS' ENTERED AT 15:35:18 ON 22 SEP 2004
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FILE COVERS 1907 - 22 Sep 2004 VOL 141 ISS 13 FILE LAST UPDATED: 21 Sep 2004 (20040921/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 137

L38

1 L37

=> d abs bib fhitstr

L38 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN GI

ABCompds., pharmaceutical compns. including the compds., and methods of preparation and use thereof are disclosed. The compds. are N-aryl diazaspirocyclic compds. (shown as I and II; variables defined below; e.g. III), bridged analogs of N-heteroaryl diazaspirocyclic compds., or prodrugs or metabolites of these compds. The aryl group can be a five or six-membered heterocyclic ring (heteroaryl). The compds. and compns. can be used to treat and/or prevent a wide variety of conditions or disorders, particularly those disorders characterized by dysfunction of nicotinic cholinergic neurotransmission, including disorders involving neuromodulation of neurotransmitter release, such as dopamine release. CNS disorders, which were characterized by an alteration in normal neurotransmitter release, are another example of disorders that can be treated and/or prevented. The compds. and compns. can also be used to alleviate pain. The compds. can alter the number of nicotinic cholinergic receptors of the brain of the patient, exhibit neuroprotective effects and when employed in effective amts., not result in appreciable adverse side effects (e.g. side effects such as significant increases in blood pressure and heart rate, significant neg. effects upon the gastrointestinal tract, and significant effects upon skeletal muscle). For the  $\alpha 4\beta 2$ subtype, the Ki value for each of the examples of I was <1  $\mu M$ , indicating that I bind tightly to the receptor. Although the methods of preparation are not claimed, 13 example prepns. are included. For example, III was prepared in 5 steps (76, 93, 96, 66 and 88 % yields, resp.) starting from Et (S)-N-benzylpyrrolidine-2-carboxylate and nitroethylene and involving intermediates Et 2-(2-nitroethyl)-1-benzylpyrrolidine-2carboxylate, 6-benzyl-2,6-diazaspiro[4.4]nonan-1-one, 1-benzyl-1,7diazaspiro[4.4] nonane and 1-benzyl-7-(3-pyridyl)-1,7diazaspiro[4.4] nonane. For I: Q1 is (CZ2)u; QII is (CZ2)v; QIII is (CZ2)w; and QIV is (CZ2)x; u, v, w and x are individually 0-4, preferably 0-3; R is H, lower alkyl, acyl, alkoxycarbonyl or aryloxycarbonyl; Z is H

and (un) substituted alkyl, cycloalkyl, heterocyclyl, aryl, alkylaryl, arylalkyl; Cy is a six membered ring linked via C to the N of the rest of I and each of the remaining ring atoms = N, N bonded to O or C bonded to a substituent species, wherein ≤3 are N or N bonded to O, or Cy is a five 5-membered heteroarom. ring linked via C to the N of the rest of I; addnl. details are given in the claims. For II: QV = (CZ2)y; QVI = (CZ2)z; y and z = 0-4; the bridged diazaspirocyclic ring contains 8-13 members; the rest of the variables are defined similarly to those for I. AN2004:41475 CAPLUS DN140:111404 TI Preparation of N-aryl diazaspirocyclic compounds as nicotinic cholinergic receptor modulators for treating nervous system and other disorders Bhatti, Balwinder S.; Miller, Craig H.; Schmidt, Jeffrey D. INTargacept, Inc., USA PAPCT Int. Appl., 101 pp. SO CODEN: PIXXD2 Patent DTEnglish LAFAN.CNT 1 PATENT NO. KIND DATE APPLICATION NO. DATE PIWO 2004005293 A2 WO 2003-US20524 20040115 20030627 WO 2004005293 **A3** 20040513 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG US 2004067930 **A1** 20040408 US 2003-607930 20030627 PRAI US 2002-394337P P 20020705 os MARPAT 140:111404 IT**646056-68-0P**, 2-(3-Pyridyl)-2,5-diazaspiro[3.5] nonane RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (drug candidate; preparation of N-aryl diazaspirocyclic compds. as nicotinic cholinergic receptor modulators for treating nervous system and other disorders) 646056-68-0 CAPLUS RN2,5-Diazaspiro[3.5] nonane, 2-(3-pyridinyl)- (9CI) (CA INDEX NAME) CN

(NONANE OR NONANES)

L2

84 (1013-88-3/BI OR 108-95-2/BI OR 125552-89-8/BI OR 128244-01-9/BI OR 15761-39-4/BI OR 15833-61-1/BI OR 165253-29-2/BI OR 17117-17 -8/BI OR 184849-49-8/BI OR 28232-63-5/BI OR 29943-42-8/BI OR 39926-11-9/BI OR 4595-59-9/BI OR 5680-79-5/BI OR 625-92-3/BI OR 626-35-7/BI OR 626-55-1/BI OR 646055-57-4/BI OR 646055-58-5/BI OR 646055-59-6/BI OR 646055-60-9/BI OR 646055-61-0/BI OR 646055-62-1/BI OR 646055-63-2/BI OR 646055-64-3/BI OR 646055-65-4/BI OR 646055-66-5/BI OR 646055-67-6/BI OR 646055-68-7/BI OR 646055-69-8/BI OR 646055-70-1/BI OR 646055-71-2/BI OR 646055-72-3/BI OR 646055-73-4/BI OR 646055-74-5/BI OR 646055-75-6/BI OR 646055-78-9/BI OR 646055-79-0/BI OR 646055-80-3/BI OR 646055-81-4/BI OR 646055-82-5/BI OR 646055-83-6/BI OR 646055-84-7/BI OR 646055-85-8/BI OR 646055-86-9/BI OR 646055-87-0/BI OR 646055-88-1/BI OR 646055-89-2/BI OR 646055-90-5/BI OR 646055-91-6/BI OR 646055-92-7/BI OR 646055-93-8/BI OR 646055-94-9/BI OR 646055-95-0/BI OR 646055-96-1/BI OR 646055-97-2/BI OR 6460

=> d 12 1-84

L2 ANSWER 1 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN **646056-69-1** REGISTRY

CN 2,5-Diazaspiro[3.5]nonane, 5-methyl-2-(3-pyridinyl)- (9CI) INDEX NAME)

OTHER NAMES:

CN 5-Methyl-2-(3-pyridyl)-2,5-diazaspiro[3.5] nonane

MF C13 H19 N3

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

$$N$$
 $N$ 
 $Me$ 

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

- 1 REFERENCES IN FILE CA (1907 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 2 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN **646056-68-0** REGISTRY

CN 2,5-Diazaspiro[3.5]nonane, 2-(3-pyridinyl)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 2-(3-Pyridyl)-2,5-diazaspiro[3.5] nonane

MF C12 H17 N3

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

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#### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

- 1 REFERENCES IN FILE CA (1907 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- L2 ANSWER 3 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN 646056-67-9 REGISTRY

CN 1,6-Diazaspiro[3.5] nonane, 1-methyl-6-(3-pyridinyl)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1-Methyl-6-(3-pyridyl)-1,6-diazaspiro[3.5] nonane

FS 3D CONCORD

MF C13 H19 N3

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

# \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

- 1 REFERENCES IN FILE CA (1907 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- L2 ANSWER 4 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN **646056-66-8** REGISTRY

CN 1,6-Diazaspiro[3.5] nonane, 6-(3-pyridinyl)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 6-(3-Pyridyl)-1,6-diazaspiro[3.5] nonane

FS 3D CONCORD

MF C12 H17 N3

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

#### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 5 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN **646056-61-3** REGISTRY

CN 2,7-Diazaspiro[4.4]nonane, 2-methyl-7-(5-phenoxy-3-pyridinyl)(9CI) (CA INDEX NAME)

OTHER NAMES:

CN 2-Methyl-7-(5-phenoxy-3-pyridyl)-2,7-diazaspiro[4.4]nonane

FS 3D CONCORD

MF C19 H23 N3 O

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

# \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 6 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN 646056-60-2 REGISTRY

CN 2,7-Diazaspiro[4.4]nonane, 2-(5-methoxy-3-pyridinyl)-7-methyl(9CI) (CA INDEX NAME)

OTHER NAMES:

CN 2-Methyl-7-(5-methoxy-3-pyridyl)-2,7-diazaspiro[4.4] nonane

FS 3D CONCORD

MF C14 H21 N3 O

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 7 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN **646056-59-9** REGISTRY

CN 2,7-Diazaspiro[4.4] nonane, 2-methyl-7-(3-pyridinyl)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 2-Methyl-7-(3-pyridyl)-2,7-diazaspiro[4.4] nonane

FS 3D CONCORD

MF C13 H19 N3

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 8 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN **646056-58-8** REGISTRY

CN 2,7-Diazaspiro[4.4] nonane, 2-(6-methoxy-3-pyridazinyl)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 2-(6-Methoxy-3-pyridazinyl)-2,7-diazaspiro[4.4] nonane

FS 3D CONCORD

MF C12 H18 N4 O

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 9 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN **646056-57-7** REGISTRY

CN 2,7-Diazaspiro[4.4]nonane, 2-(6-chloro-3-pyridinyl)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 2-(6-Chloro-3-pyridyl)-2,7-diazaspiro[4.4]nonane

FS 3D CONCORD

MF C12 H16 Cl N3

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 10 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN **646056-56-6** REGISTRY

CN 2,7-Diazaspiro[4.4]nonane, 2-(5-ethynyl-3-pyridinyl)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 2-(5-Ethynyl-3-pyridyl)-2,7-diazaspiro[4.4]nonane

FS 3D CONCORD

MF C14 H17 N3

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

#### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 11 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN **646056-55-5** REGISTRY

CN Phenol, 4-[[5-(2,7-diazaspiro[4.4]non-2-yl)-3-pyridinyl]oxy]- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 2-[5-(4-Hydroxyphenoxy)-3-pyridyl]-2,7-diazaspiro[4.4]nonane

FS 3D CONCORD

MF C18 H21 N3 O2

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 12 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN **646056-54-4** REGISTRY

CN 2,7-Diazaspiro[4.4]nonane, 2-(5-phenoxy-3-pyridinyl)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 2-(5-Phenoxy-3-pyridyl)-2,7-diazaspiro[4.4]nonane

FS 3D CONCORD

MF C18 H21 N3 O

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 13 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN **646056-53-3** REGISTRY

CN 2,7-Diazaspiro[4.4]nonane, 2-[5-(cyclopentyloxy)-3-pyridinyl](9CI) (CA INDEX NAME)

OTHER NAMES:

CN 2-[5-(Cyclopentyloxy)-3-pyridyl]-2,7-diazaspiro[4.4]nonane

FS 3D CONCORD

MF C17 H25 N3 O

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 14 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN **646056-52-2** REGISTRY

CN 2,7-Diazaspiro[4.4]nonane, 2-(5-methoxy-3-pyridinyl)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 2-(5-Methoxy-3-pyridyl)-2,7-diazaspiro[4.4]nonane

FS 3D CONCORD

MF C13 H19 N3 O

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

#### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 15 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN 646056-51-1 REGISTRY

CN 2,7-Diazaspiro[4.4]nonane, 2-(3-pyridazinyl)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 2-(3-Pyridazinyl)-2,7-diazaspiro[4.4]nonane

FS 3D CONCORD

MF C11 H16 N4

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 16 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN **646056-50-0** REGISTRY

CN 2,7-Diazaspiro[4.4] nonane, 2-pyrazinyl- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 2-(2-Pyrazinyl)-2,7-diazaspiro[4.4] nonane

FS 3D CONCORD

MF C11 H16 N4

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

#### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 17 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN 646056-49-7 REGISTRY

CN 2,7-Diazaspiro[4.4]nonane, 2-(1,3,4-oxadiazol-2-yl)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 2-([1,3,4]Oxadiazol-2-yl)-2,7-diazaspiro[4.4]nonane

FS 3D CONCORD

MF C9 H14 N4 O

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

#### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 18 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN **646056-48-6** REGISTRY

CN 2,7-Diazaspiro[4.4]nonane, 2-(1,2,4-oxadiazol-5-yl)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 2-([1,2,4]Oxadiazol-5-yl)-2,7-diazaspiro[4.4]nonane

FS 3D CONCORD

MF C9 H14 N4 O

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

#### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 19 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN 646056-47-5 REGISTRY

CN 2,7-Diazaspiro[4.4]nonane, 2-(5-isothiazolyl)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 2-(5-Isothiazolyl)-2,7-diazaspiro[4.4] nonane

FS 3D CONCORD

MF C10 H15 N3 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

#### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 20 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN **646056-46-4** REGISTRY

CN 2,7-Diazaspiro[4.4]nonane, 2-(5-isoxazolyl)- (9CI) (CA INDEX NAME)

#### OTHER NAMES:

CN 2-(5-Isoxazolyl)-2,7-diazaspiro[4.4]nonane

FS 3D CONCORD

MF C10 H15 N3 O

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 21 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN **646056-45-3** REGISTRY

CN 2,7-Diazaspiro[4.4] nonane, 2-(5-pyrimidinyl) - (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 2-(5-Pyrimidinyl)-2,7-diazaspiro[4.4]nonane

FS 3D CONCORD

MF C11 H16 N4

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

# \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

- 1 REFERENCES IN FILE CA (1907 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 22 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN **646056-44-2** REGISTRY

CN 2,7-Diazaspiro[4.4] nonane, 2-(3-pyridinyl)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 2-(3-Pyridyl)-2,7-diazaspiro[4.4] nonane

FS 3D CONCORD

MF C12 H17 N3

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

#### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 23 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN **646056-43-1** REGISTRY

CN 1,7-Diazaspiro[4.4] nonane, 7-methyl-1-(3-pyridazinyl) - (9CI)

(CA INDEX NAME)

OTHER NAMES:

CN 7-Methyl-1-(3-pyridazinyl)-1,7-diazaspiro[4.4] nonane

FS 3D CONCORD

MF C12 H18 N4

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 24 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN **646056-42-0** REGISTRY

CN 1,7-Diazaspiro[4.4] nonane, 7-methyl-1-pyrazinyl- (9CI) (CA

INDEX NAME)

OTHER NAMES:

CN 7-Methyl-1-(2-pyrazinyl)-1,7-diazaspiro[4.4]nonane
FS 3D CONCORD
MF C12 H18 N4
SR CA
LC STN Files: CA, CAPLUS, USPATFULL
DT.CA CAplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 25 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN **646056-41-9** REGISTRY

CN 1,7-Diazaspiro[4.4]nonane, 7-methyl-1-(1,3,4-oxadiazol-2-yl)(9CI) (CA INDEX NAME)

OTHER NAMES:

CN 7-Methyl-1-([1,3,4]oxadiazol-2-yl)-1,7-diazaspiro[4.4]nonane

FS 3D CONCORD

MF C10 H16 N4 O

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

- 1 REFERENCES IN FILE CA (1907 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 26 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN
RN 646056-40-8 REGISTRY
CN 1,7-Diazaspiro[4.4]nonane, 7-methyl-1-(1,2,4-oxadiazol-5-yl)(9CI) (CA INDEX NAME)

OTHER NAMES:

CN 7-Methyl-1-([1,2,4]oxadiazol-5-yl)-1,7-diazaspiro[4.4]nonane

FS 3D CONCORD

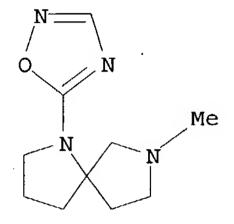
MF C10 H16 N4 O

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)



### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 27 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN **646056-39-5** REGISTRY

CN 1,7-Diazaspiro[4.4]nonane, 1-(5-isothiazolyl)-7-methyl- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 7-Methyl-1-(5-isothiazolyl)-1,7-diazaspiro[4.4] nonane

FS 3D CONCORD

MF C11 H17 N3 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

#### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 28 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN 646056-38-4 REGISTRY

CN 1,7-Diazaspiro[4.4]nonane, 1-(5-isoxazolyl)-7-methyl- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 7-Methyl-1-(5-isoxazolyl)-1,7-diazaspiro[4.4] nonane

FS 3D CONCORD

MF C11 H17 N3 O

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 29 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN **646056-37-3** REGISTRY

CN 1,7-Diazaspiro[4.4]nonane, 7-methyl-1-(5-pyrimidinyl)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 7-Methyl-1-(5-pyrimidinyl)-1,7-diazaspiro[4.4] nonane

FS 3D CONCORD

MF C12 H18 N4

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 30 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN **646056-36-2** REGISTRY

CN 1,7-Diazaspiro[4.4]nonane, 7-methyl-1-(3-pyridinyl)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 7-Methyl-1-(3-pyridyl)-1,7-diazaspiro[4.4] nonane

FS 3D CONCORD

MF C13 H19 N3

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

# \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 31 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN **646056-35-1** REGISTRY

CN 1,7-Diazaspiro[4.4]nonane, 7-(6-methoxy-3-pyridazinyl)-1-methyl(9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1-Methyl-7-(6-methoxy-3-pyridazinyl)-1,7-diazaspiro[4.4] nonane

FS 3D CONCORD

MF C13 H20 N4 O

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

#### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 32 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN 646056-34-0 REGISTRY

CN 1,7-Diazaspiro[4.4] nonane, 7-(6-chloro-3-pyridinyl)-1-methyl-

(9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1-Methyl-7-(6-chloro-3-pyridyl)-1,7-diazaspiro[4.4]nonane

FS 3D CONCORD

MF C13 H18 C1 N3

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

- 1 REFERENCES IN FILE CA (1907 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 33 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN **646056-33-9** REGISTRY

CN 1,7-Diazaspiro[4.4]nonane, 7-(5-ethynyl-3-pyridinyl)-1-methyl-

(9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1-Methyl-7-(5-ethynyl-3-pyridyl)-1,7-diazaspiro[4.4]nonane

FS 3D CONCORD

MF C15 H19 N3

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 34 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN **646056-32-8** REGISTRY

CN Phenol, 4-[[5-(1-methyl-1,7-diazaspiro[4.4]non-7-yl)-3-pyridinyl]oxy](9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1-Methyl-7-[5-(4-hydroxyphenoxy)-3-pyridyl]-1,7-diazaspiro[4.4] nonane

FS 3D CONCORD

MF C19 H23 N3 O2

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 35 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

**646056-31-7** REGISTRY RN 1,7-Diazaspiro[4.4]nonane, 7-[5-(cyclopentyloxy)-3-pyridinyl]-1-CNmethyl- (9CI) (CA INDEX NAME) OTHER NAMES: 1-Methyl-7-[5-(cyclopentyloxy)-3-pyridyl]-1,7-CNdiazaspiro[4.4] nonane 3D CONCORD FS C18 H27 N3 O MF SR CA STN Files: CA, CAPLUS, USPATFULL LCDT.CA CAplus document type: Patent Roles from patents: BIOL (Biological study); PREP (Preparation); USES RL.P

(Uses)

#### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 36 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN **646056-30-6** REGISTRY

CN 1,7-Diazaspiro[4.4]nonane, 7-(5-methoxy-3-pyridinyl)-1-methyl-(9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1-Methyl-7-(5-methoxy-3-pyridyl)-1,7-diazaspiro[4.4]nonane

FS 3D CONCORD

MF C14 H21 N3 O

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

#### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 37 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN **646056-29-3** REGISTRY

CN 1,7-Diazaspiro[4.4]nonane, 1-methyl-7-(3-pyridazinyl)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1-Methyl-7-(3-pyridazinyl)-1,7-diazaspiro[4.4]nonane

FS 3D CONCORD

MF C12 H18 N4

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

#### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 38 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN **646056-28-2** REGISTRY

CN 1,7-Diazaspiro[4.4]nonane, 1-methyl-7-pyrazinyl- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1-Methyl-7-(2-pyrazinyl)-1,7-diazaspiro[4.4] nonane

FS 3D CONCORD

MF C12 H18 N4

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 39 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN 646056-27-1 REGISTRY

CN 1,7-Diazaspiro[4.4]nonane, 1-methyl-7-(1,3,4-oxadiazol-2-yl)(9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1-Methyl-7-([1,3,4]oxadiazol-2-yl)-1,7-diazaspiro[4.4]nonane

FS 3D CONCORD

MF C10 H16 N4 O

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

#### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 40 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN **646056-26-0** REGISTRY

CN 1,7-Diazaspiro[4.4] nonane, 1-methyl-7-(1,2,4-oxadiazol-5-yl)(9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1-Methyl-7-([1,2,4]oxadiazol-5-yl)-1,7-diazaspiro[4.4]nonane

FS 3D CONCORD

MF C10 H16 N4 O

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

$$\begin{array}{c|c}
N & N \\
N & O \\
N & N
\end{array}$$
Me

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 41 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN **646056-25-9** REGISTRY

CN 1,7-Diazaspiro[4.4] nonane, 7-(5-isothiazolyl)-1-methyl- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1-Methyl-7-(5-isothiazolyl)-1,7-diazaspiro[4.4]nonane

FS 3D CONCORD

MF C11 H17 N3 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA Caplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

#### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

- 1 REFERENCES IN FILE CA (1907 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- L2 ANSWER 42 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN **646056-24-8** REGISTRY

CN 1,7-Diazaspiro[4.4]nonane, 7-(5-isoxazolyl)-1-methyl- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1-Methyl-7-(5-isoxazolyl)-1,7-diazaspiro[4.4] nonane

FS 3D CONCORD

MF C11 H17 N3 O

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 43 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN 646056-23-7 REGISTRY

CN 1,7-Diazaspiro[4.4]nonane, 1-methyl-7-(5-pyrimidinyl)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1-Methyl-7-(5-pyrimidinyl)-1,7-diazaspiro[4.4] nonane

FS 3D CONCORD

MF C12 H18 N4

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

#### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

- 1 REFERENCES IN FILE CA (1907 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 44 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN 646056-22-6 REGISTRY

CN 1,7-Diazaspiro[4.4]nonane, 1-(3-pyridazinyl)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1-(3-Pyridazinyl)-1,7-diazaspiro[4.4] nonane

FS 3D CONCORD

MF C11 H16 N4

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

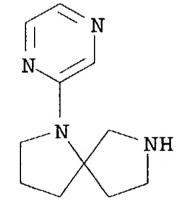
DT.CA CAplus document type: Patent

### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

- 1 REFERENCES IN FILE CA (1907 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- L2 ANSWER 45 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN
- RN **646056-21-5** REGISTRY
- CN 1,7-Diazaspiro[4.4]nonane, 1-pyrazinyl- (9CI) (CA INDEX NAME)

OTHER NAMES:

- CN 1-(2-Pyrazinyl)-1,7-diazaspiro[4.4]nonane
- FS 3D CONCORD
- MF C11 H16 N4
- SR CA
- LC STN Files: CA, CAPLUS, USPATFULL
- DT.CA CAplus document type: Patent
- RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)



## \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

- 1 REFERENCES IN FILE CA (1907 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- L2 ANSWER 46 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 646056-20-4 REGISTRY
- CN 1,7-Diazaspiro[4.4] nonane, 1-(1,3,4-oxadiazol-2-yl)- (9CI) (CA INDEX NAME)

OTHER NAMES:

- CN 1-([1,3,4]Oxadiazol-2-yl)-1,7-diazaspiro[4.4]nonane
- FS 3D CONCORD
- MF C9 H14 N4 O

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

#### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 47 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN **646056-19-1** REGISTRY

CN 1,7-Diazaspiro[4.4] nonane, 1-(1,2,4-oxadiazol-5-yl)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1-([1,2,4]Oxadiazol-5-yl)-1,7-diazaspiro[4.4]nonane

FS 3D CONCORD

MF C9 H14 N4 O

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

## \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 48 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN **646056-18-0** REGISTRY

CN 1,7-Diazaspiro[4.4] nonane, 1-(5-isothiazolyl) - (9CI) (CA INDEX

NAME)

OTHER NAMES:

CN 1-(5-Isothiazolyl)-1,7-diazaspiro[4.4]nonane

FS 3D CONCORD

MF C10 H15 N3 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

#### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 49 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN **646056-17-9** REGISTRY

CN 1,7-Diazaspiro[4.4]nonane, 1-(5-isoxazolyl)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1-(5-Isoxazolyl)-1,7-diazaspiro[4.4]nonane

FS 3D CONCORD

MF C10 H15 N3 O

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

### 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 50 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN **646056-16-8** REGISTRY

CN 1,7-Diazaspiro[4.4]nonane, 1-(5-pyrimidinyl)- (9CI) (CA-INDEX NAME)

OTHER NAMES:

CN 1-(5-Pyrimidinyl)-1,7-diazaspiro[4.4] nonane

FS 3D CONCORD

MF C11 H16 N4

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

#### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 51 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN **646056-15-7** REGISTRY

CN 1,7-Diazaspiro[4.4]nonane, 7-(6-methoxy-3-pyridazinyl)- (9CI)

(CA INDEX NAME)
OTHER NAMES:

CN 7-(6-Methoxy-3-pyridazinyl)-1,7-diazaspiro[4.4]nonane

FS 3D CONCORD

MF C12 H18 N4 O

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 52 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN **646056-14-6** REGISTRY

CN 1,7-Diazaspiro[4.4]nonane, 7-(6-chloro-3-pyridinyl)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 7-(6-Chloro-3-pyridyl)-1,7-diazaspiro[4.4]nonane

FS 3D CONCORD

MF C12 H16 Cl N3

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

#### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 53 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN **646056-13-5** REGISTRY

CN 1,7-Diazaspiro[4.4]nonane, 7-(5-ethynyl-3-pyridinyl)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 7-(5-Ethynyl-3-pyridyl)-1,7-diazaspiro[4.4] nonane

FS 3D CONCORD

MF C14 H17 N3

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 54 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN 646056-12-4 REGISTRY

CN Phenol, 4-[[5-(1,7-diazaspiro[4.4]non-7-yl)-3-pyridinyl]oxy]- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 7-[5-(4-Hydroxyphenoxy)-3-pyridyl]-1,7-diazaspiro[4.4]nonane

FS 3D CONCORD

MF C18 H21 N3 O2

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 55 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN **646056-11-3** REGISTRY

CN 1,7-Diazaspiro[4.4]nonane, 7-[5-(cyclopentyloxy)-3-pyridinyl](9CI) (CA INDEX NAME)

OTHER NAMES:

CN 7-[5-(Cyclopentyloxy)-3-pyridyl]-1,7-diazaspiro[4.4]nonane

FS 3D CONCORD

MF C17 H25 N3 O

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

## \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 56 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN **646056-10-2** REGISTRY

CN 1,7-Diazaspiro[4.4] nonane, 7-(5-methoxy-3-pyridinyl) - (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 7-(5-Methoxy-3-pyridyl)-1,7-diazaspiro[4.4]nonane

FS 3D CONCORD

MF C13 H19 N3 O

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

## \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 57 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN **646056-09-9** REGISTRY

CN 1,7-Diazaspiro[4.4]nonane, 7-(3-pyridazinyl)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 7-(3-Pyridazinyl)-1,7-diazaspiro[4.4] nonane

FS 3D CONCORD

MF C11 H16 N4

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

#### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

- 1 REFERENCES IN FILE CA (1907 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 58 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN **646056-08-8** REGISTRY

CN 1,7-Diazaspiro[4.4] nonane, 7-pyrazinyl- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 7-(2-Pyrazinyl)-1,7-diazaspiro[4.4]nonane

FS 3D CONCORD

MF C11 H16 N4

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

# \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 59 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN **646056-07-7** REGISTRY

CN 1,7-Diazaspiro[4.4]nonane, 7-(1,3,4-oxadiazol-2-yl)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 7-([1,3,4]0xadiazol-2-yl)-1,7-diazaspiro[4.4]nonane

FS 3D CONCORD

MF C9 H14 N4 O

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

- 1 REFERENCES IN FILE CA (1907 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- L2 ANSWER 60 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN
- RN **646056-06-6** REGISTRY
- CN 1,7-Diazaspiro[4.4] nonane, 7-(1,2,4-oxadiazol-5-yl)- (9CI) (CA INDEX NAME)

OTHER NAMES:

- CN 7-([1,2,4]Oxadiazol-5-yl)-1,7-diazaspiro[4.4]nonane
- FS 3D CONCORD
- MF C9 H14 N4 O
- SR CA
- LC STN Files: CA, CAPLUS, USPATFULL
- DT.CA CAplus document type: Patent
- RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

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\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

- 1 REFERENCES IN FILE CA (1907 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- L2 ANSWER 61 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN
- RN **646056-05-5** REGISTRY
- CN 1,7-Diazaspiro[4.4] nonane, 7-(5-isothiazolyl) (9CI) (CA INDEX NAME)

OTHER NAMES:

- CN 7-(5-Isothiazolyl)-1,7-diazaspiro[4.4]nonane
- FS 3D CONCORD
- MF C10 H15 N3 S
- SR CA
- LC STN Files: CA, CAPLUS, USPATFULL
- DT.CA CAplus document type: Patent
- RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

- 1 REFERENCES IN FILE CA (1907 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- L2 ANSWER 62 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN **646056-04-4** REGISTRY

CN 1,7-Diazaspiro[4.4]nonane, 7-(5-isoxazolyl)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 7-(5-Isoxazolyl)-1,7-diazaspiro[4.4] nonane

FS 3D CONCORD

MF C10 H15 N3 O

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

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## \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

- 1 REFERENCES IN FILE CA (1907 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- L2 ANSWER 63 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN 646056-03-3 REGISTRY

CN 1,7-Diazaspiro[4.4] nonane, 7-(5-pyrimidinyl) - (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 7-(5-Pyrimidinyl)-1,7-diazaspiro[4.4] nonane

FS 3D CONCORD

MF C11 H16 N4

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

#### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

- 1 REFERENCES IN FILE CA (1907 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- L2 ANSWER 64 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN
- RN **646056-02-2** REGISTRY
- CN 1,7-Diazaspiro[4.4]nonane, 7-(3-pyridinyl)-1-[(2S)-2-pyrrolidinylcarbonyl]-, (5S)- (9CI) (CA INDEX NAME)
- FS STEREOSEARCH
- MF C17 H24 N4 O
- SR CA
- LC STN Files: CA, CAPLUS, USPATFULL
- DT.CA CAplus document type: Patent
- RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)

Absolute stereochemistry.

# \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

- 1 REFERENCES IN FILE CA (1907 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- L2 ANSWER 65 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN
- RN **646056-01-1** REGISTRY
- CN 1,7-Diazaspiro[4.4]nonane, 7-(3-pyridinyl)-1-[(2S)-2-pyrrolidinylcarbonyl]-, (5R)- (9CI) (CA INDEX NAME)
- FS STEREOSEARCH
- MF C17 H24 N4 O
- SR CA
- LC STN Files: CA, CAPLUS, USPATFULL
- DT.CA CAplus document type: Patent
- RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)

Absolute stereochemistry.

#### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 66 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN **646056-00-0** REGISTRY

CN 1,7-Diazaspiro[4.4]nonane, 7-(3-pyridinyl)-, (-)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN (-)-7-(3-Pyridyl)-1,7-diazaspiro[4.4] nonane

FS STEREOSEARCH

MF C12 H17 N3

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

## Rotation (-).

#### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 67 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN **646055-99-4** REGISTRY

CN 1,7-Diazaspiro[4.4]nonane, 7-(3-pyridinyl)-, (+)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN (+)-7-(3-Pyridyl)-1,7-diazaspiro[4.4] nonane

FS STEREOSEARCH

MF C12 H17 N3

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

Rotation (+).

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 68 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN **646055-74-5** REGISTRY

CN 1,7-Diazaspiro[4.4]nonane, 1-methyl-7-(5-phenoxy-3-pyridinyl)-, dihydrochloride (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1-Methyl-7-(5-phenoxy-3-pyridyl)-1,7-diazaspiro[4.4] nonane dihydrochloride

MF C19 H23 N3 O . 2 Cl H

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

CRN (646055-71-2)

•2 HCl

- 1 REFERENCES IN FILE CA (1907 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- L2 ANSWER 69 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN RN 646055-73-4 REGISTRY

CN 1,7-Diazaspiro[4.4] nonane, 7-(5-phenoxy-3-pyridinyl) - (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 7-(5-Phenoxy-3-pyridyl)-1,7-diazaspiro[4.4] nonane

FS 3D CONCORD

MF C18 H21 N3 O

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

## \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 70 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN **646055-72-3** REGISTRY

CN 1,7-Diazaspiro[4.4] nonane, 7-(5-phenoxy-3-pyridinyl)-1-(phenylmethyl)(9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1-Benzyl-7-(5-phenoxy-3-pyridyl)-1,7-diazaspiro[4.4]nonane

FS 3D CONCORD

MF C25 H27 N3 O

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)

#### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 71 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN **646055-71-2** REGISTRY

1,7-Diazaspiro[4.4] nonane, 1-methyl-7-(5-phenoxy-3-pyridinyl)-CN(9CI) (CA INDEX NAME) OTHER NAMES: 1-Methyl-7-(5-phenoxy-3-pyridyl)-1,7-diazaspiro[4.4]nonane CNFS 3D CONCORD C19 H23 N3 O

CI COM

SR CA

MF

STN Files: LCCA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

#### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

ANSWER 72 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN L2

RN**646055-70-1** REGISTRY

1,7-Diazaspiro[4.4] nonane, 7-(5-ethoxy-3-pyridinyl) - (9CI) CNINDEX NAME)

OTHER NAMES:

7-(5-Ethoxy-3-pyridyl)-1,7-diazaspiro[4.4]nonane CN

3D CONCORD FS

MFC14 H21 N3 O

SR CA

STN Files: LCCA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

Roles from patents: PREP (Preparation); RACT (Reactant or reagent) RL.P

# \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2ANSWER 73 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN **646055-69-8** REGISTRY

CN 1,7-Diazaspiro[4.4]nonane, 7-(5-ethoxy-3-pyridinyl)-1-(phenylmethyl)(9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1-Benzyl-7-(5-ethoxy-3-pyridyl)-1,7-diazaspiro[4.4] nonane

FS 3D CONCORD

MF C21 H27 N3 O

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)

#### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 74 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN 646055-68-7 REGISTRY

CN 1,7-Diazaspiro[4.4] nonane, 7-(5-ethoxy-3-pyridinyl)-1-methyl-

(9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1-Methyl-7-(5-ethoxy-3-pyridyl)-1,7-diazaspiro[4.4]nonane

FS 3D CONCORD

MF C15 H23 N3 O

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

#### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 75 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN 646055-67-6 REGISTRY

CN 1,7-Diazaspiro[4.4]nonane, 7-(3-pyridinyl)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 7-(3-Pyridyl)-1,7-diazaspiro[4.4] nonane

FS 3D CONCORD

MF C12 H17 N3

CI COM

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

#### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 76 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN **646055-66-5** REGISTRY

CN 1,7-Diazaspiro[4.4] nonane, 1-methyl-7-(3-pyridinyl)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1-Methyl-7-(3-pyridyl)-1,7-diazaspiro[4.4] nonane

FS 3D CONCORD

MF C13 H19 N3

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

## \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 77 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

**646055-65-4** REGISTRY RN1,7-Diazaspiro[4.4] nonane, 1-(3-pyridinyl)- (9CI) (CA INDEX CN NAME) OTHER NAMES: 1-(3-Pyridyl)-1,7-diazaspiro[4.4] nonane CN FS 3D CONCORD C12 H17 N3 MFCI COM CA SR STN Files: CA, CAPLUS, USPATFULL LC DT.CA CAplus document type: Patent Roles from patents: BIOL (Biological study); PREP (Preparation); RACT RL.P (Reactant or reagent); USES (Uses)

#### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 78 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN **646055-64-3** REGISTRY

CN 1,7-Diazaspiro[4.4]nonane-7-carboxylic acid, 1-(3-pyridinyl)-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

OTHER NAMES:

CN tert-Butyl 6-(3-pyridyl)-2,6-diazaspiro[4.4]nonane-2-carboxylate

FS 3D CONCORD

MF C17 H25 N3 O2

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 79 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN **646055-63-2** REGISTRY

CN 1,7-Diazaspiro[4.4]nonane-7-carboxylic acid, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

OTHER NAMES:

CN tert-Butyl 2,6-diazaspiro[4.4]nonane-2-carboxylate

FS 3D CONCORD

MF C12 H22 N2 O2

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)

#### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 80 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN **646055-62-1** REGISTRY

CN 1,7-Diazaspiro[4.4] nonane-7-carboxylic acid, 1-(phenylmethyl)-,

1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

OTHER NAMES:

CN tert-Butyl 6-benzyl-2,6-diazaspiro[4.4]nonane-2-carboxylate

FS 3D CONCORD

MF C19 H28 N2 O2

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)

- 1 REFERENCES IN FILE CA (1907 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- L2 ANSWER 81 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 646055-61-0 REGISTRY
- CN 1,7-Diazaspiro[4.4]nonane, 1-(3-pyridinyl)-, dihydrochloride (9CI) (CA INDEX NAME)

OTHER NAMES:

- CN 1-(3-Pyridyl)-1,7-diazaspiro[4.4] nonane dihydrochloride
- MF C12 H17 N3 . 2 Cl H
- SR CA
- LC STN Files: CA, CAPLUS, USPATFULL
- DT.CA CAplus document type: Patent
- RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)
- CRN (646055-65-4)

## •2 HCl

- 1 REFERENCES IN FILE CA (1907 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- L2 ANSWER 82 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN
- RN **646055-60-9** REGISTRY
- CN 1,7-Diazaspiro[4.4]nonane, 1-(phenylmethyl)-7-(3-pyridinyl)- (9CI) (CA INDEX NAME)

OTHER NAMES:

- CN 1-Benzyl-7-(3-pyridyl)-1,7-diazaspiro[4.4] nonane
- FS 3D CONCORD
- MF C19 H23 N3
- SR CA
- LC STN Files: CA, CAPLUS, USPATFULL
- DT.CA CAplus document type: Patent
- RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 83 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN

RN **646055-57-4** REGISTRY

CN 1,7-Diazaspiro[4.4]nonane, 7-(3-pyridinyl)-, dihydrochloride (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 7-(3-Pyridyl)-1,7-diazaspiro[4.4] nonane dihydrochloride

MF C12 H17 N3 . 2 Cl H

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

CRN (646055-67-6)

#### ●2 HC1

- 1 REFERENCES IN FILE CA (1907 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- L2 ANSWER 84 OF 84 REGISTRY COPYRIGHT 2004 ACS on STN
- RN **128244-01-9** REGISTRY
- CN 1,7-Diazaspiro[4.4]nonane, 1-(phenylmethyl)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1-Benzyl-1,7-diazaspiro[4.4] nonane

FS 3D CONCORD

MF C14 H20 N2

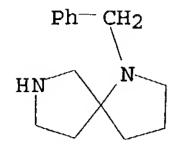
SR CA

LC STN Files: BEILSTEIN\*, CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL (\*File contains numerically searchable property data)

DT.CA CAplus document type: Journal; Patent

RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)

RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)



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\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

- 2 REFERENCES IN FILE CA (1907 TO DATE)
- 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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(FILE 'HOME' ENTERED AT 14:47:31 ON 22 SEP 2004)

FILE 'REGISTRY' ENTERED AT 14:47:42 ON 22 SEP 2004

FILE 'CAPLUS' ENTERED AT 14:47:47 ON 22 SEP 2004 1 S US20040067930/PN SELECT RN L1 1

FILE 'REGISTRY' ENTERED AT 14:48:28 ON 22 SEP 200